R E P O R T R E S U M E S

ED 003 745 64

INSTRUMENTATION FOR INSTRUCTION, 1955-70, VOL. 8--PICTURES.

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NATIONAL EDUCATION ASSN., WASHINGTON, D.C.

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AUTOMATIC MARKING AND SCORING MACHINES, PRECUT CARDS, AND TEACHING MACHINES WERE ILLUSTRATED IN THIS VOLUME. OTHER VOLUMES OF THIS SERIES ARE ED 003 738 THROUGH ED 003 746. (LP)

ED003745

FINAL REPORT

B-069

TECHNOLOGICAL DEVELOPMENT PROJECT

INSTRUMENTATION FOR INSTRUCTION: 1955-1970

Draft Copy for Editing

VOLUME VIII - PICTURES

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Ch. _____ Page _____

Fig 367

BURGESS — counts errors in pre-~~punched~~ cut IBM cards punched out by students

Neg. No. 1175

Ch._____ Page_____

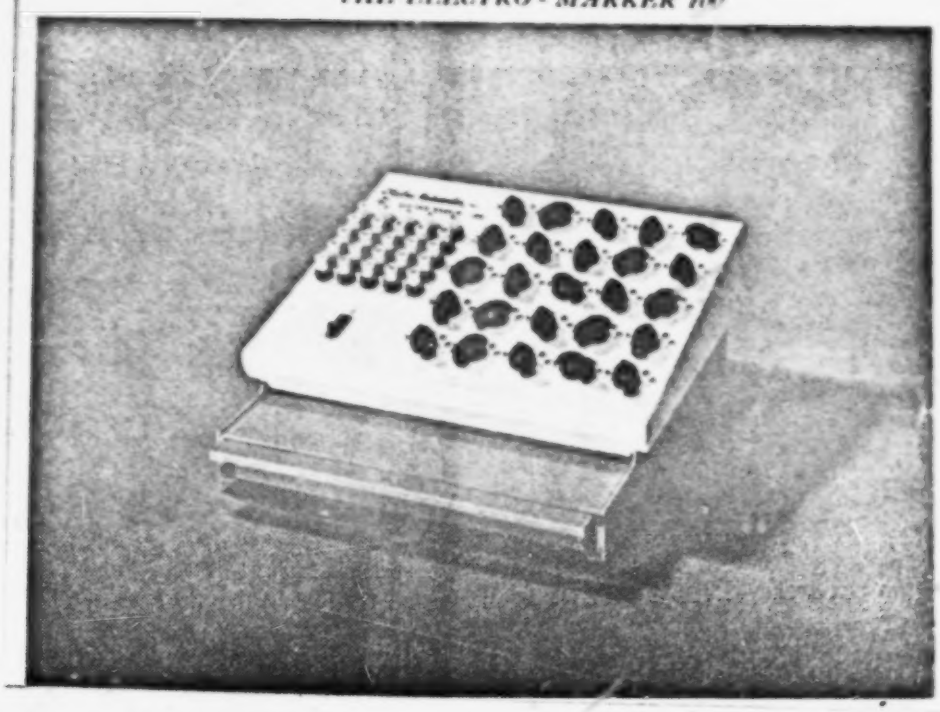
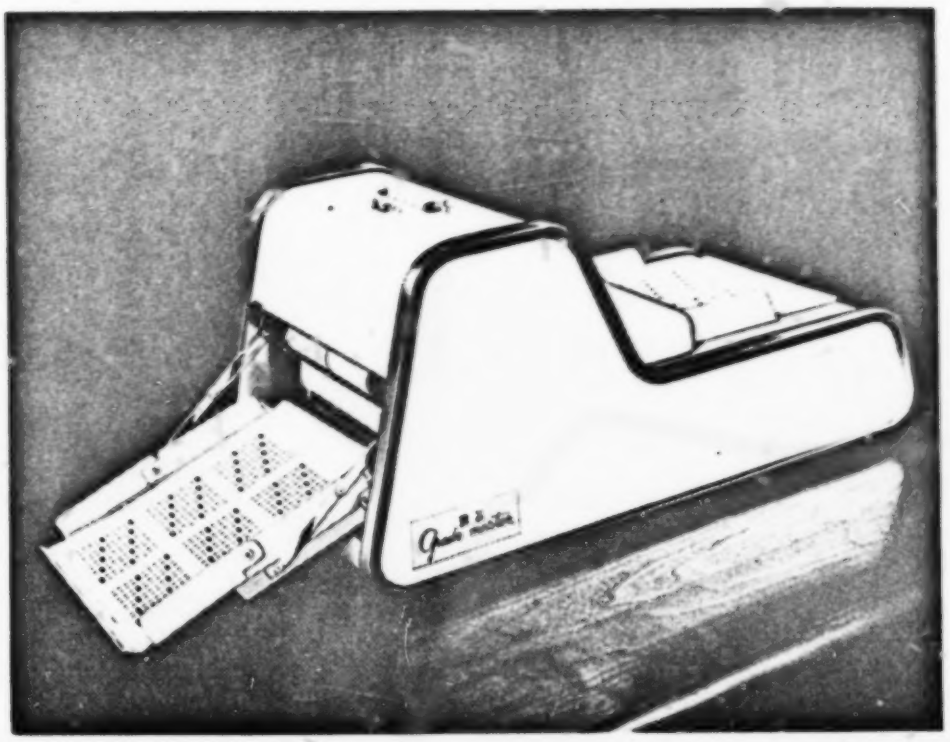


Fig 368 Electro Networks Inc — scans marked answer sheets

Neg. No. 1265

Ch. _____ Page _____



ELECTRONICS FOR EDUCATION INC. →
automatic marking & scoring

Fig 369

Neg. No. ~~369~~ 1176

Ch. _____ Page _____

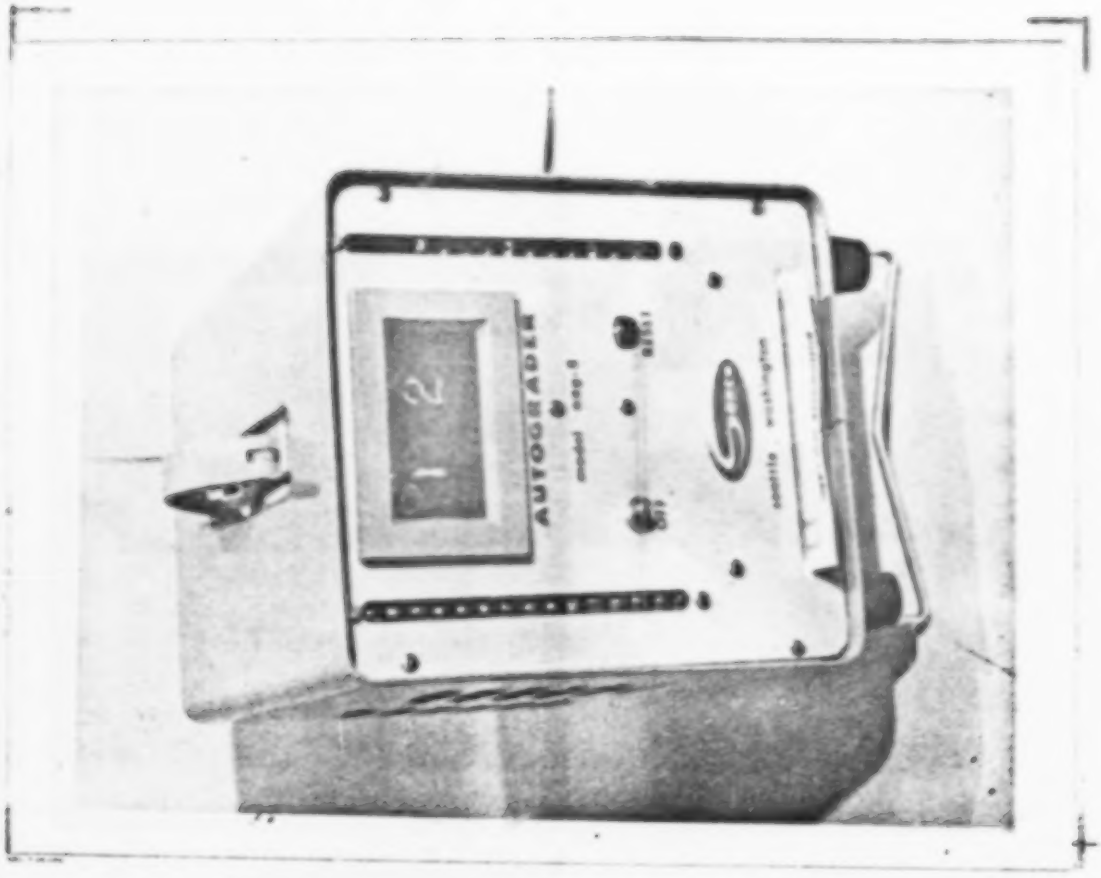
Top

INTERNATIONAL BUSINESS MACHINES — mainstay of large testing organizations for over 25 years

Fig 320

Neg. No. 1177

Ch:_____ Page _____



TOP

SERCO — photoelectric scanning

Fig 321

Neg. No. 1178

Ch. _____ Page _____

A-ALPHA — a masking device with multiple choice capability

Fig 372

Neg. No. 1179

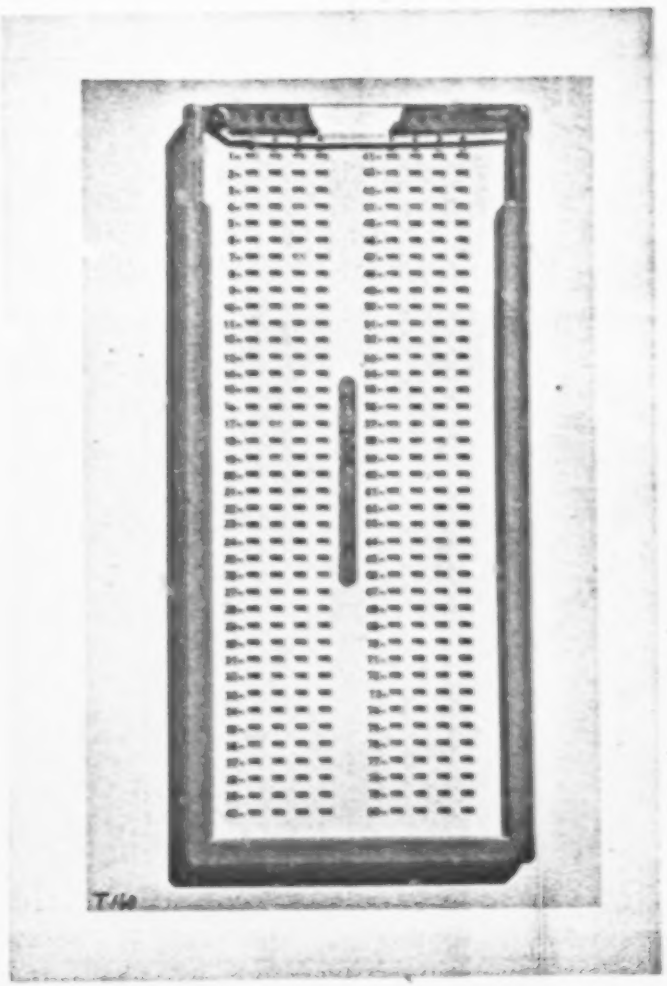
Ch. _____ Page _____

GENERAL ATRONICS — punchboard with area for written answers

Fig 373

Neg. No. ~~[illegible]~~ 1160

Ch. _____ Page _____

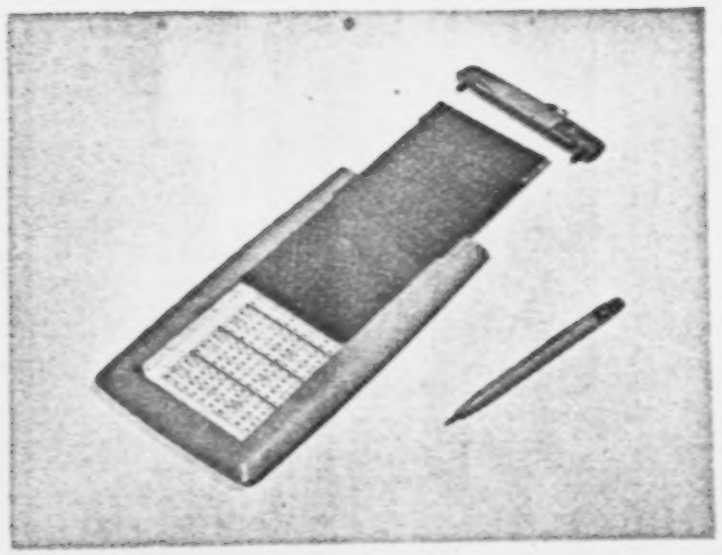


INFOTRON — mask allows student to punch pre-cut IBM card

Fig 374

Neg. No. 97

Ch. _____ Page _____

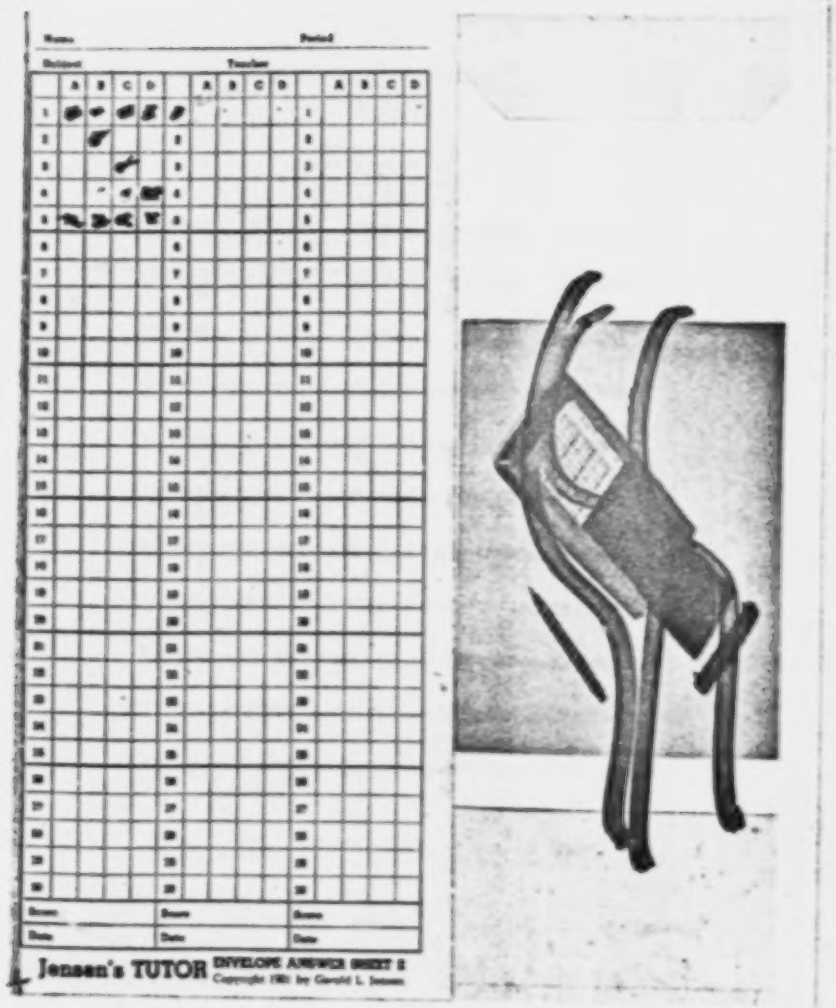


INSTRUMENT RESEARCH – student punches pre-cut IBM card

Fig 375

Neg. No. 512

Ch. ____ Page ____



JENSEN — printed envelope with pre-punched score card inside

Fig 376

Neg. No. ~~72~~ 1181

Ch. _____ Page _____

THE MULTIPLE PURPOSE

SELF TRAINER

Developed by
Charles W. Nelson, Ph.D.
Formerly Associate Professor
The University of Chicago

Example	a.	b.	c.	d.	e.
1	a.	b.	c.	d.	e.
2	a.	b.	c.	d.	e.
3	a.	b.	c.	d.	e.
4	a.	b.	c.	d.	e.
5	a.	b.	c.	d.	e.
6	a.	b.	c.	d.	e.
7	a.	b.	c.	d.	e.
8	a.	b.	c.	d.	e.
9	a.	b.	c.	d.	e.
10	a.	b.	c.	d.	e.

Score Key	Ace	King	Queen	Jack	Ten	Total

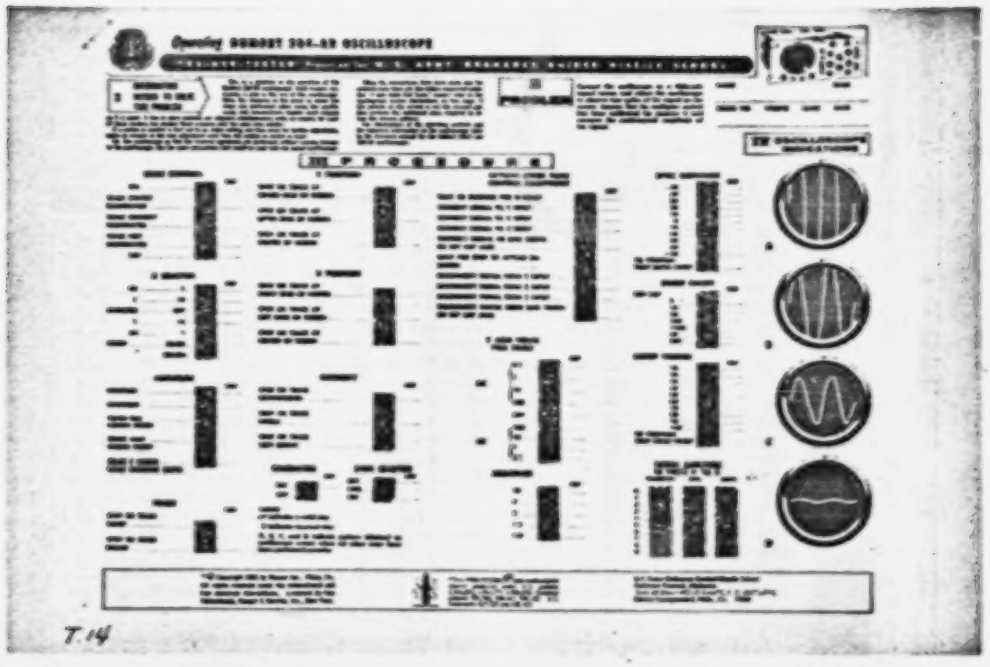
Published by Management Research Associates, 185 N. Wabash, Chicago 1, Ill. Copyright 1954 by C. W. Nelson. All rights reserved. Printed in U.S.A. Write Dr. Nelson of Mgt. Res. Assoc. for Self-Trainer Test Services. (A Patent Pending

MANAGEMENT RESEARCH — pulling off tab discloses Ace, King, Queen, Jack

FIS 377

Neg. No. 492

Ch. _____ Page _____

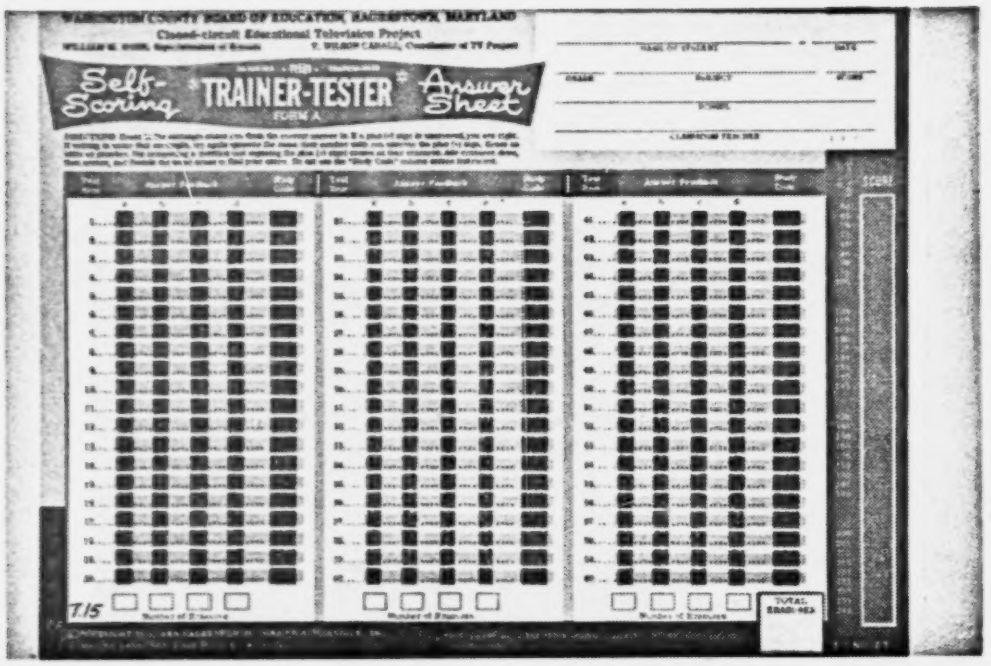


RENNER — erasible overlay covers answer or instruction

Fig 371

Neg. No. 60

Ch. _____ Page _____



VAN VALKENBURGH – erasible overlay answer sheets which student can score

Fig 379

Neg. No 59

~~Pressey and Date~~

Fig 380 Sydney L. Pressey shows his early teaching machine to Edgar Dale.

Neg. No. 480

Ch. _____ Page _____

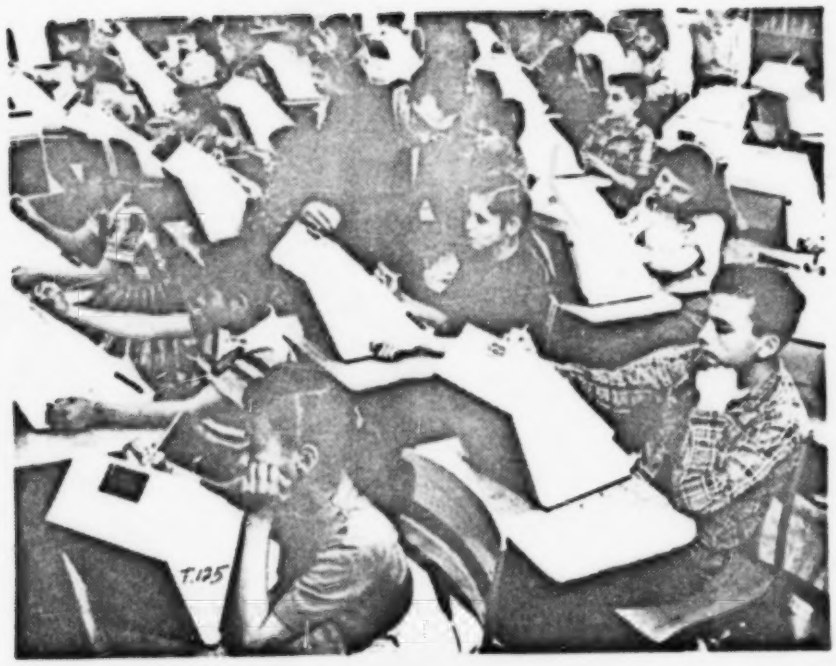


Fig 380a

EXPERIMENTAL USE OF TEACHING MACHINES, ALBUQUERQUE, N.M. 1960.

Neg. No. 54

Ch._____ Page_____

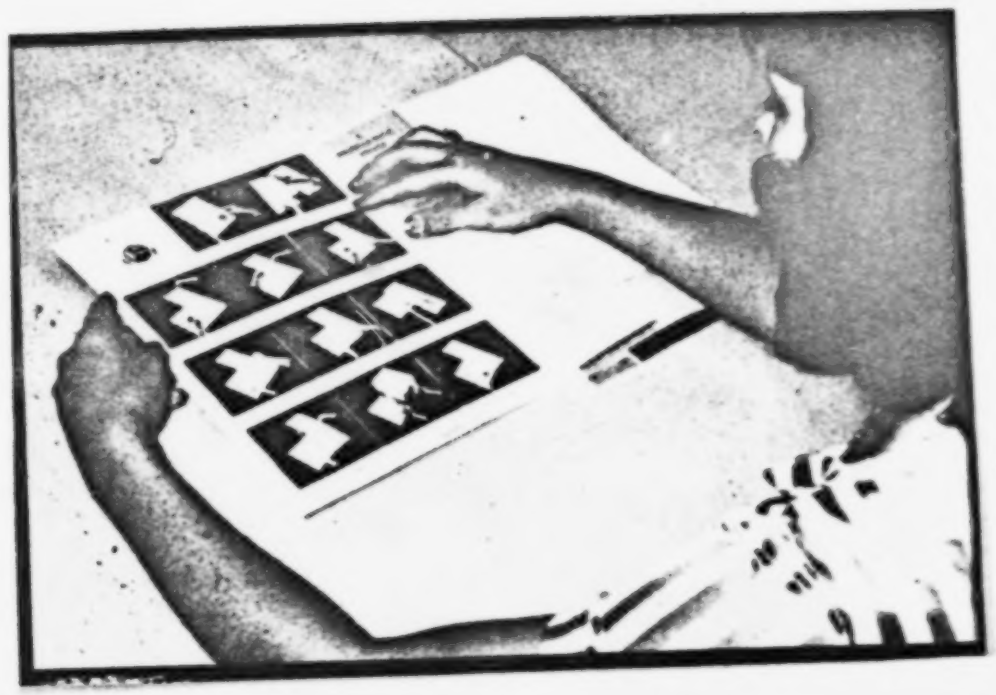


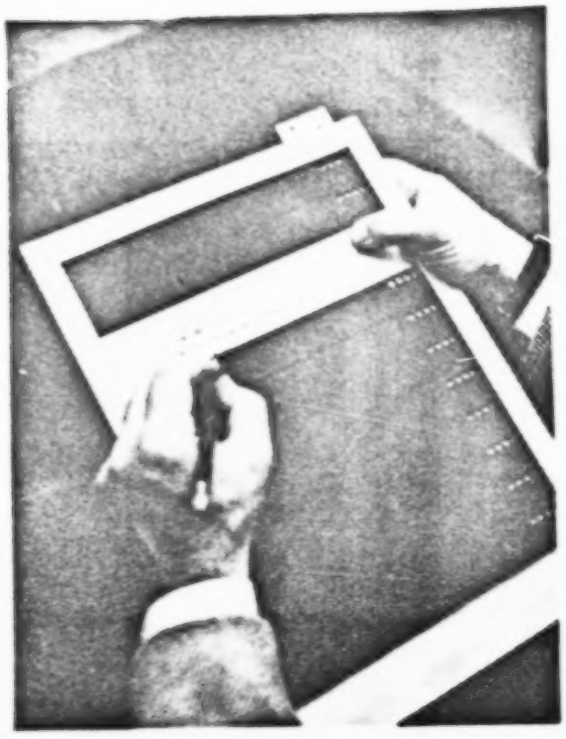
Fig 381 Colortone — book format simulates a machine

Neg. No. 2005 ~~266~~

Fig 382

NATIONAL BLANK BOOK Co. — programs such a TESTAC come in a folder with sliding mask to cover the answers

Neg. No ~~75E~~ 1182

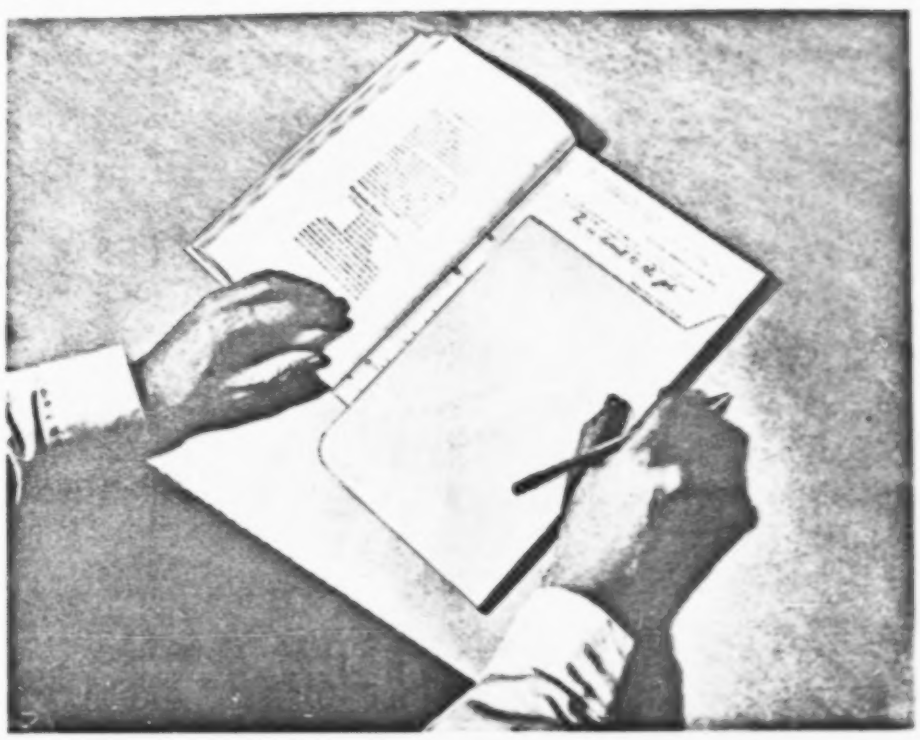


"INSTRUCTIVE DEVICES — a novel application of the sliding mask for multiple choice programs

FIG 383

Neg No. 510

Ch. _____ Page _____

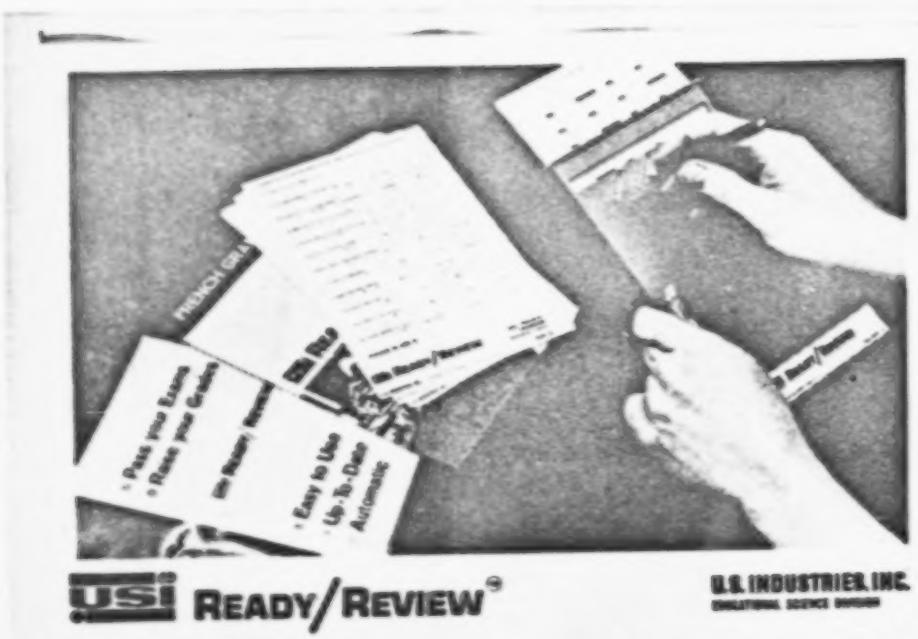


PALMER — mask only

Fig 38K

Neg. No. ~~7-C~~ 1183

Ch. _____ Page _____

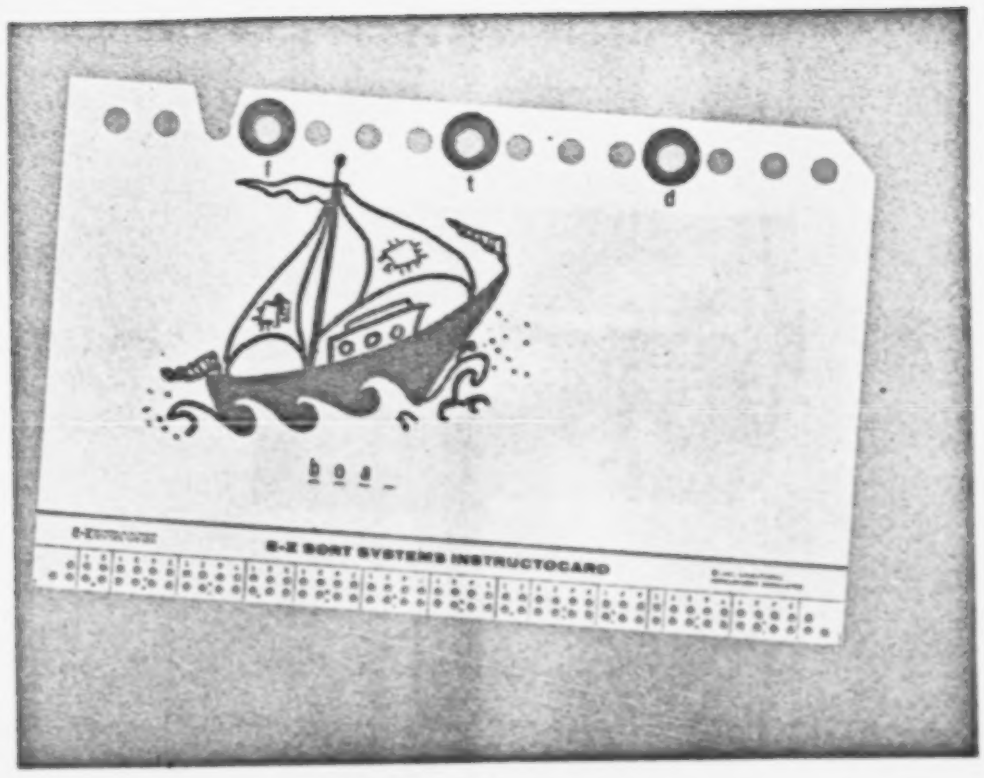


U. S. INDUSTRIES — ~~neither~~ simple

Fig 385 multiple choice unit

Neg. No 467

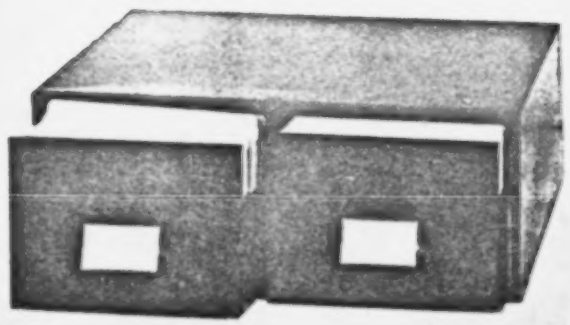
Ch _____ Page _____



E-Z Sort Card —

Fig 386 flexible system is similar to flash cards

Neg. No. 1184



EZ SORT-CARD STORAGE

Fig 387

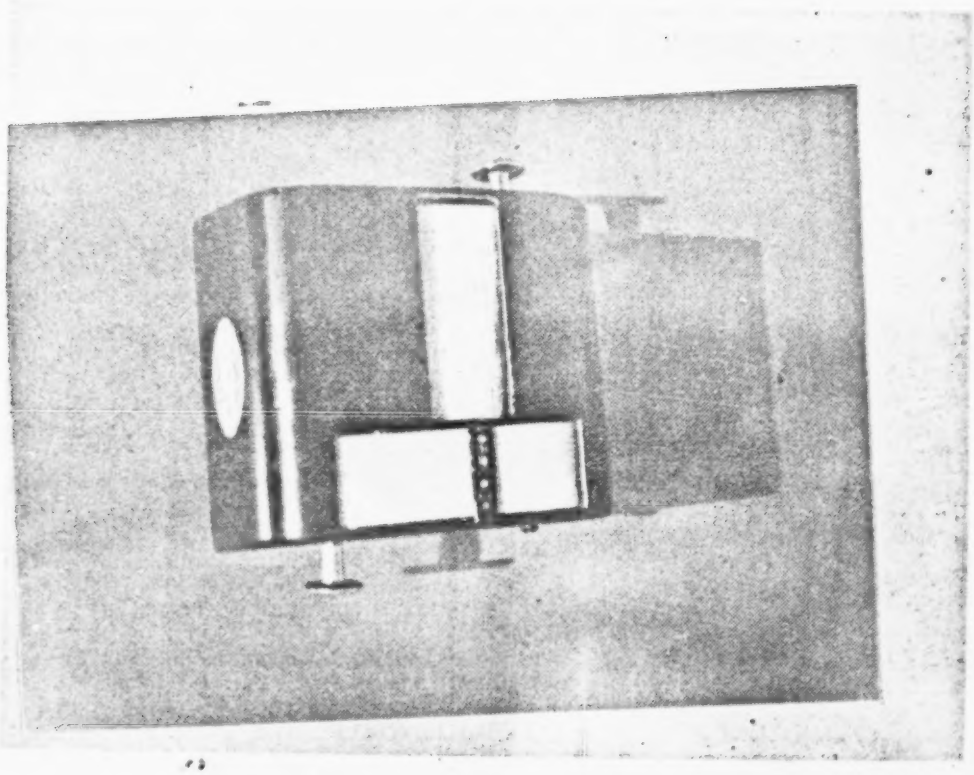
Neg. No 504

Experiment at UCLA used cards to accomplish branching without a machine.

Pic 388

~~Pictures 2 388's.~~

Ch. _____ Page _____



A-ALPHA

Fig 388a

Neg. No. 508

Ch. _____ Page _____

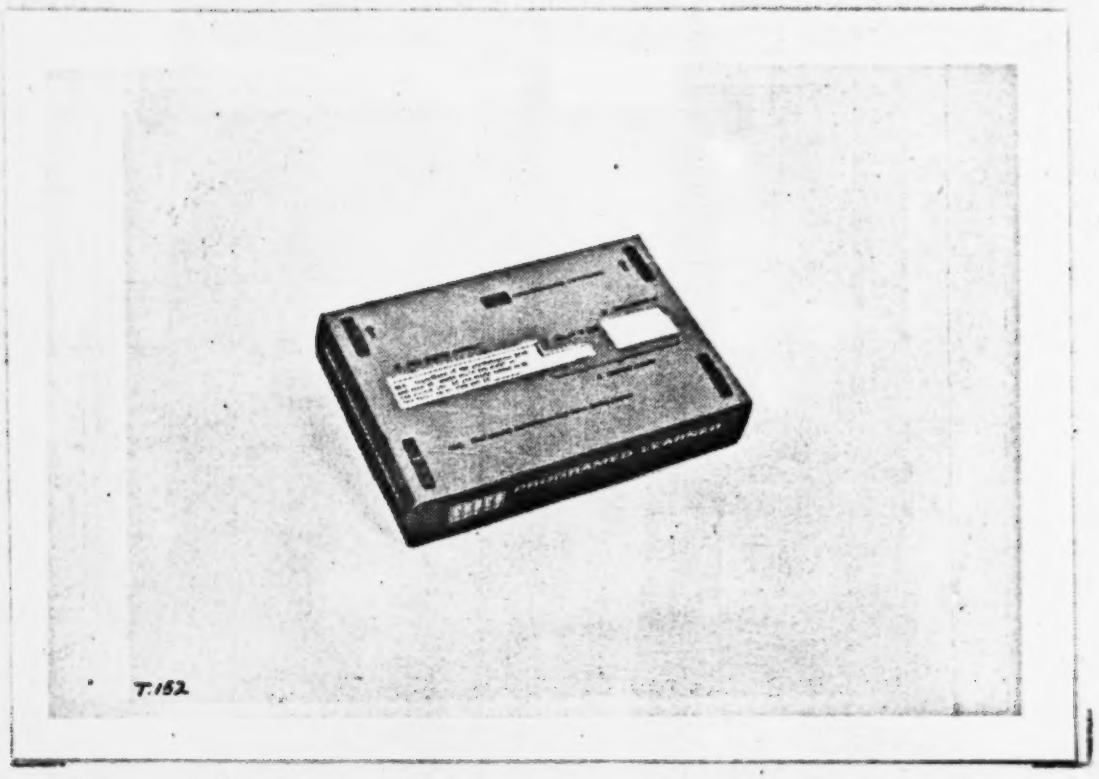
"AVTA

FIG 388 B

There are 2-387's

Neg. No 30

Ch. _____ Page _____

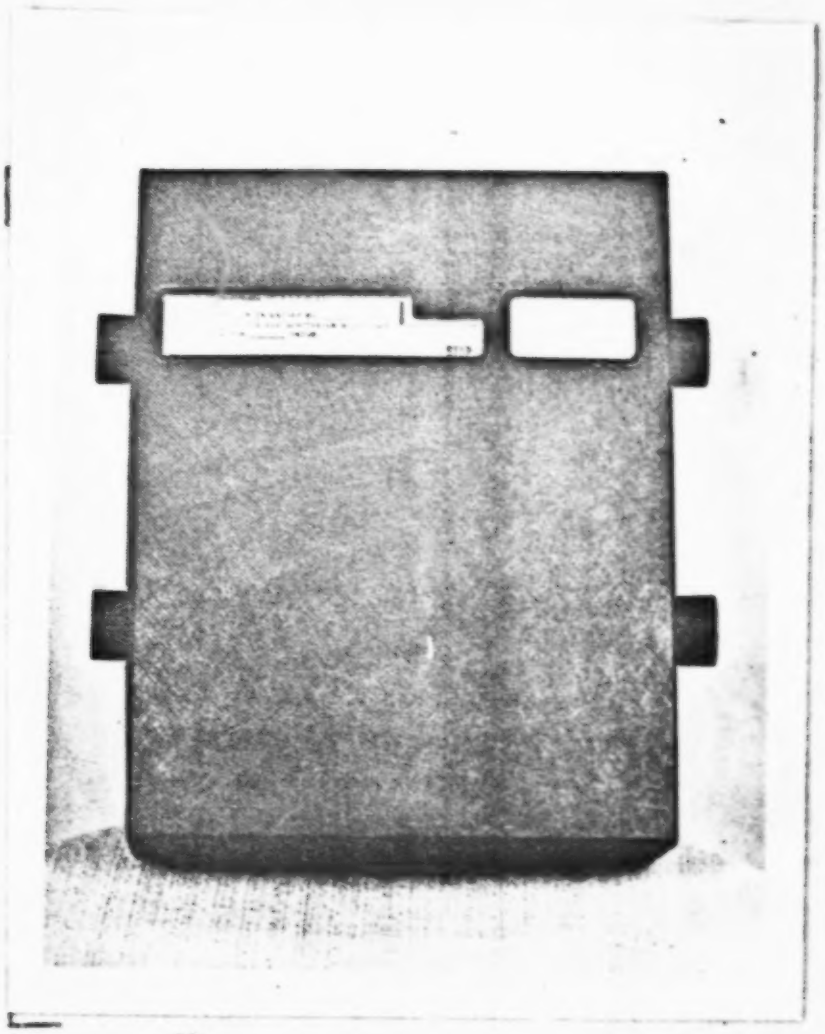


" CENCO

Fig 388c

Neg. No 98

Ch. _____ Page _____

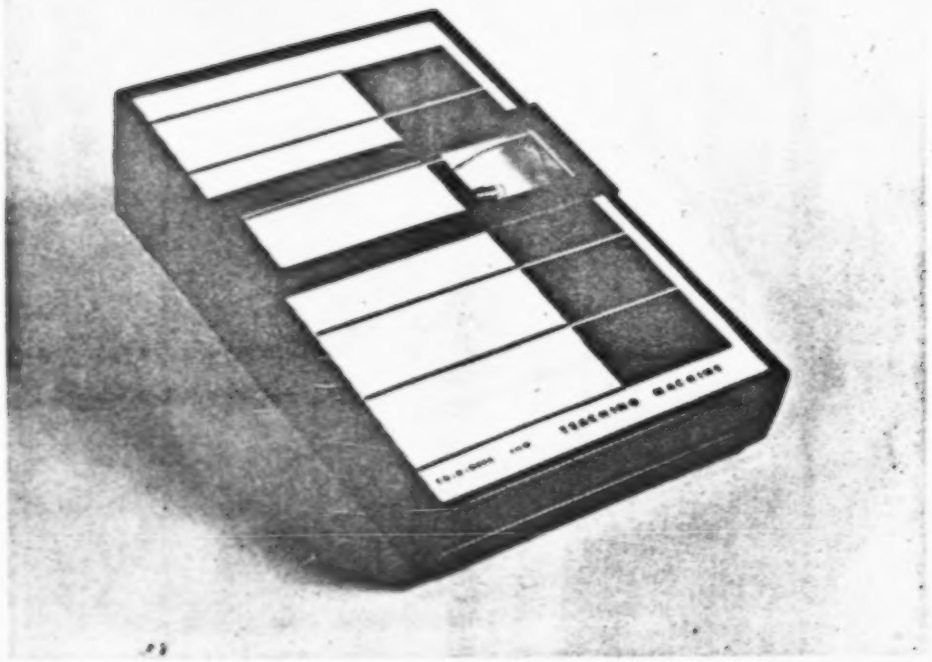


EDUCATIONAL AIDS

Fig 389

Neg. No. ~~EB~~ 1165

Ch ____ Page ____

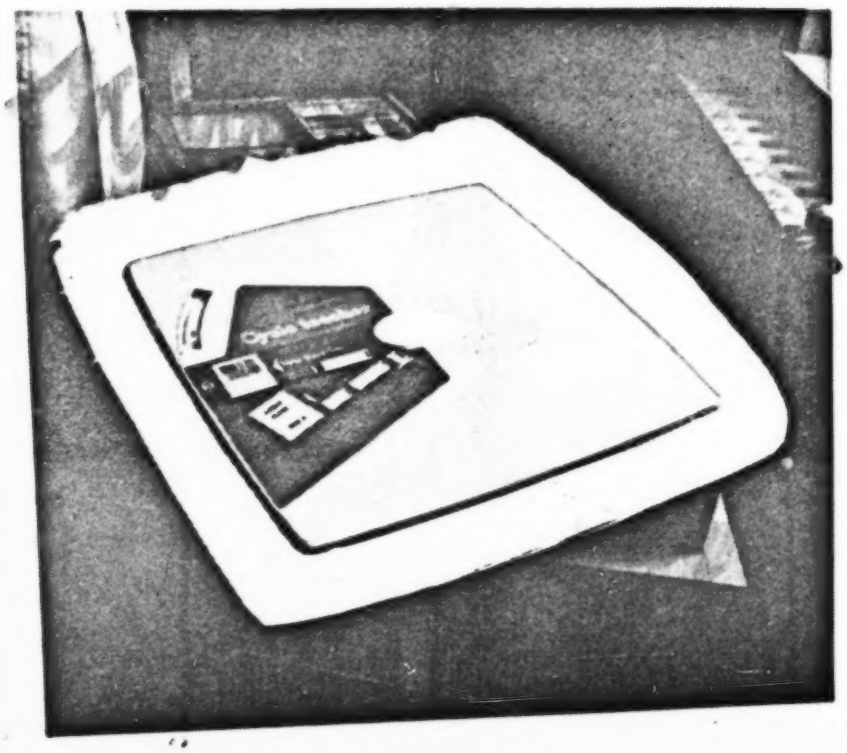


ED-U-CARD

FIG 390

Neg. No. 1186

Ch:..... Page .....



FIELD

Fig. 391

Neg. No. 6 1187

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GENERAL EDUCATION

FILE 392

Neg. No. 466

Ch _____ Page _____

GRAFLEX

393

Neg. No 114

Ch _____ Page _____

GRAPHIC - ROLL

Fig 39f

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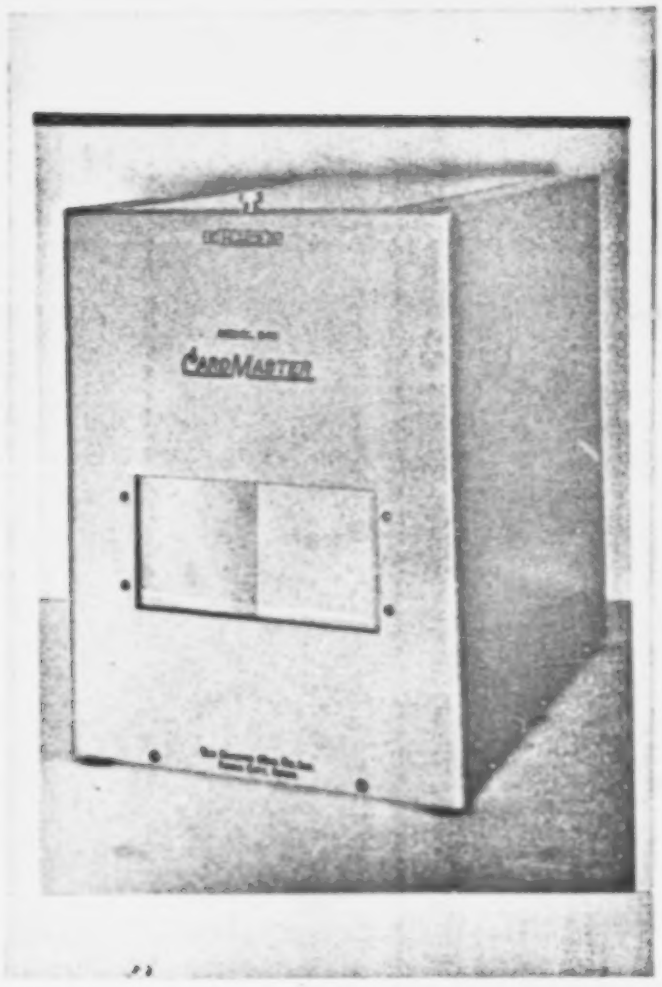
Ch _____ Page _____

HAMILTON

FIG 395

Neg. No. 95

Ch..... Page .....



HUNTER

Fig. 396

Neg. No. 483

Ch. _____ Page _____

MODERN TEACHING ~~AIDS~~ ASSOCIATES

FAB 397

Reg No 84

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NATIONAL COMMUNICATION LABS

FIG 398

Neg. No. 86

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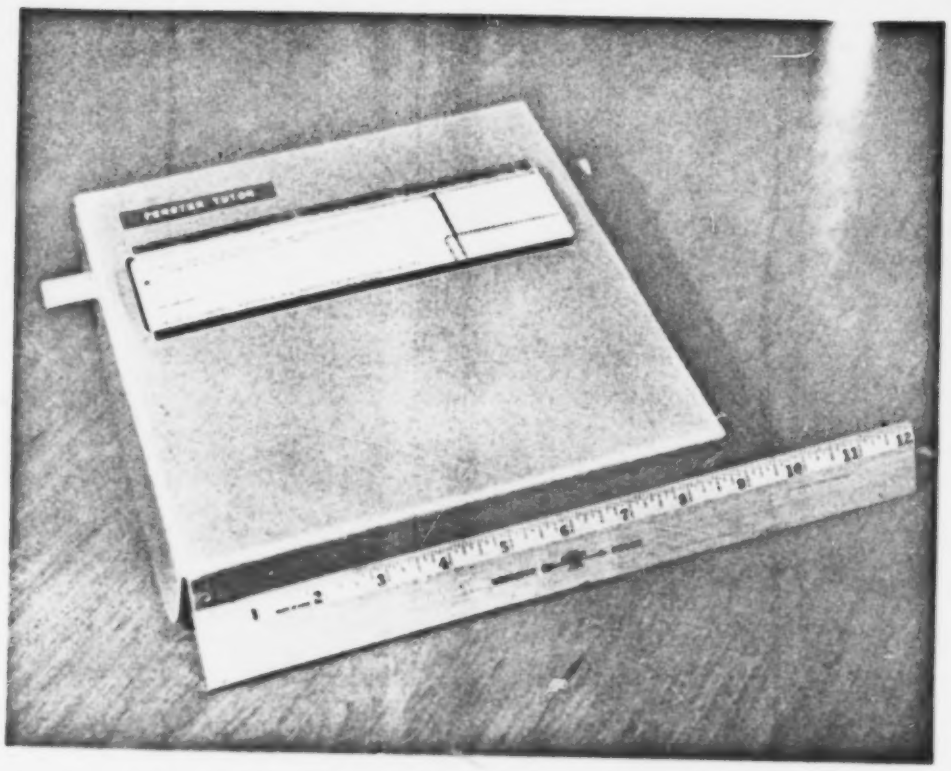


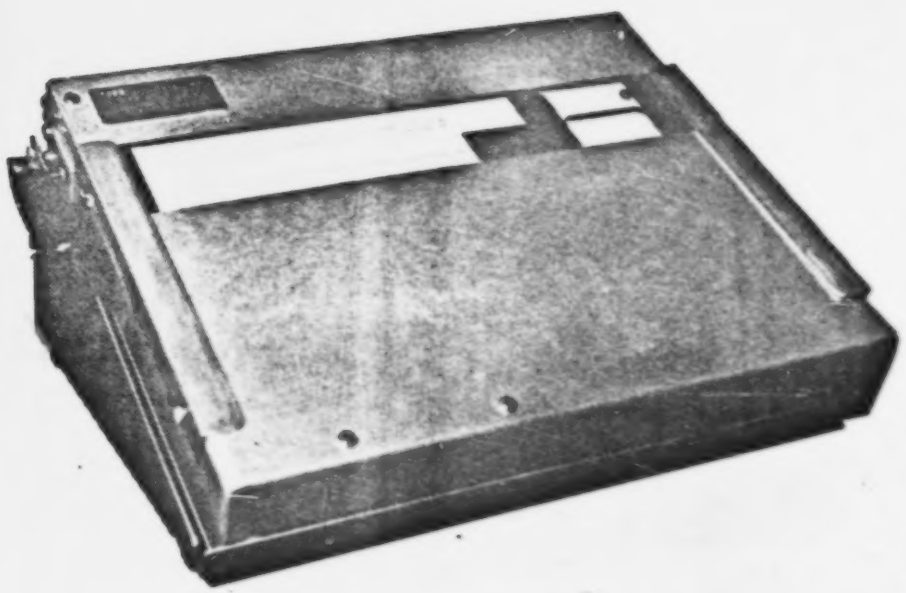
PROGRAMMED TEACHING AIDS

Fig 400

1168

Neg. No ~~6970~~

Ch. ____ Page ____



PROGRAMMED TEACHING AIDS

FILE 401

Neg. No 1169 ~~690~~

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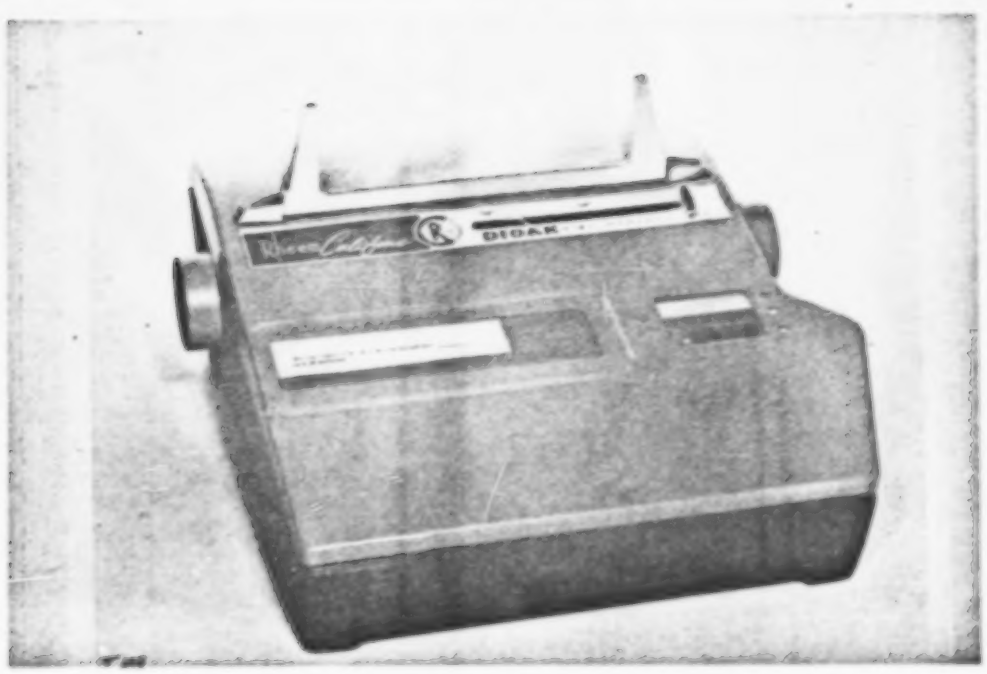

RHEEM

Fig. 402

Neg. No. 100

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RHEEM

Fig 403

Neg. No 101

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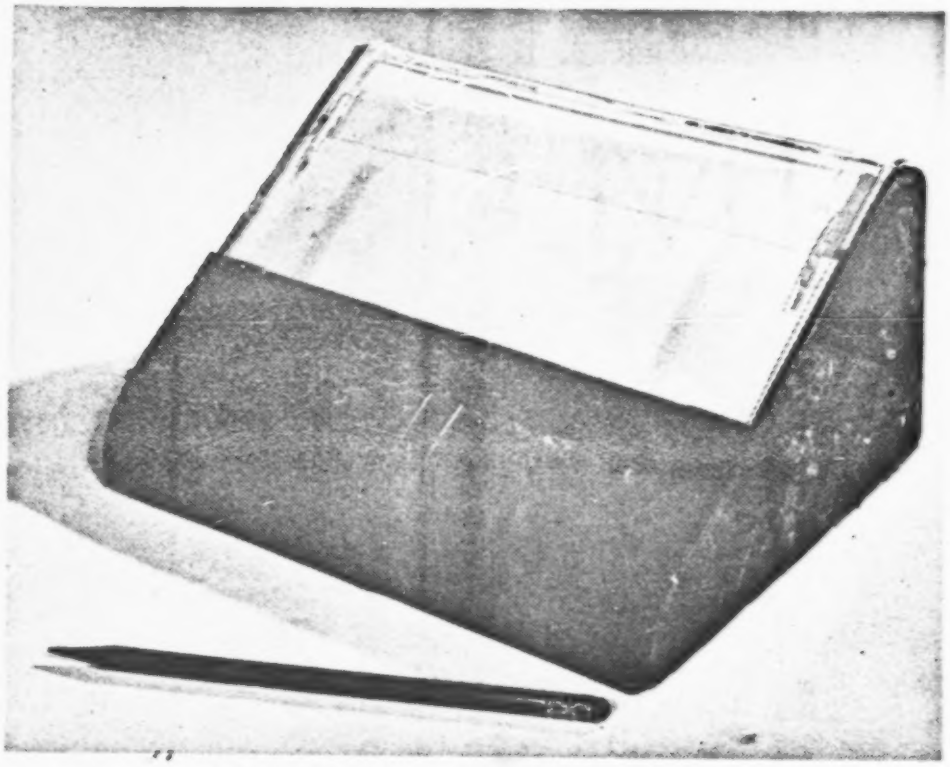

STATEN

40f

Fig. _____

1190

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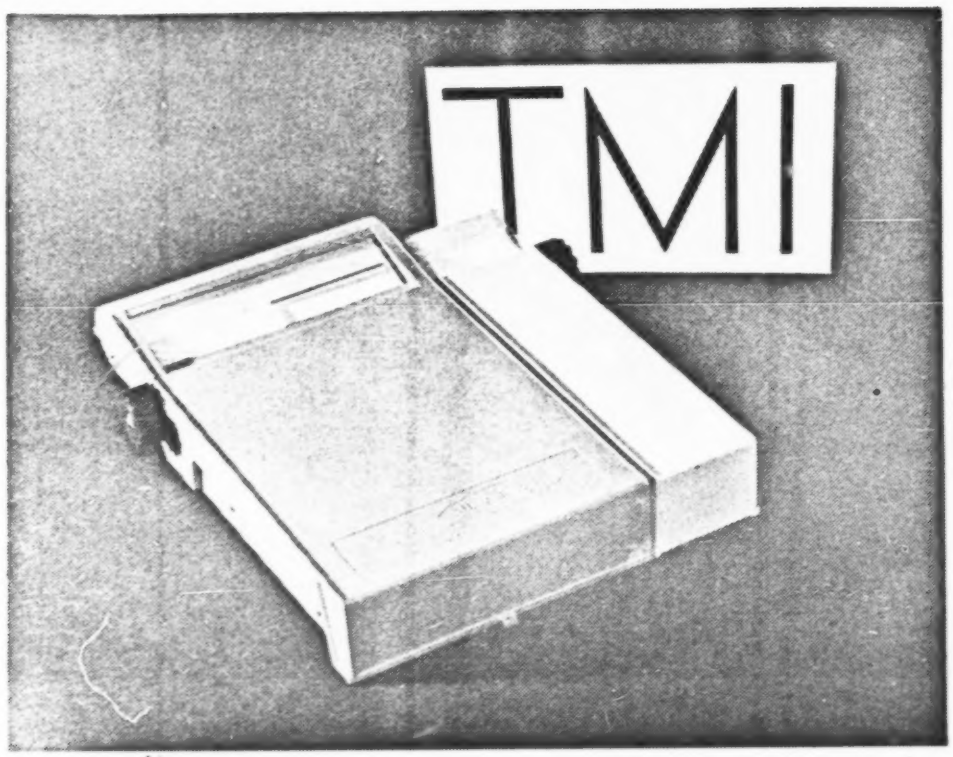

TEACHING MACHINES INC.
405

Mail _____

No: 1191

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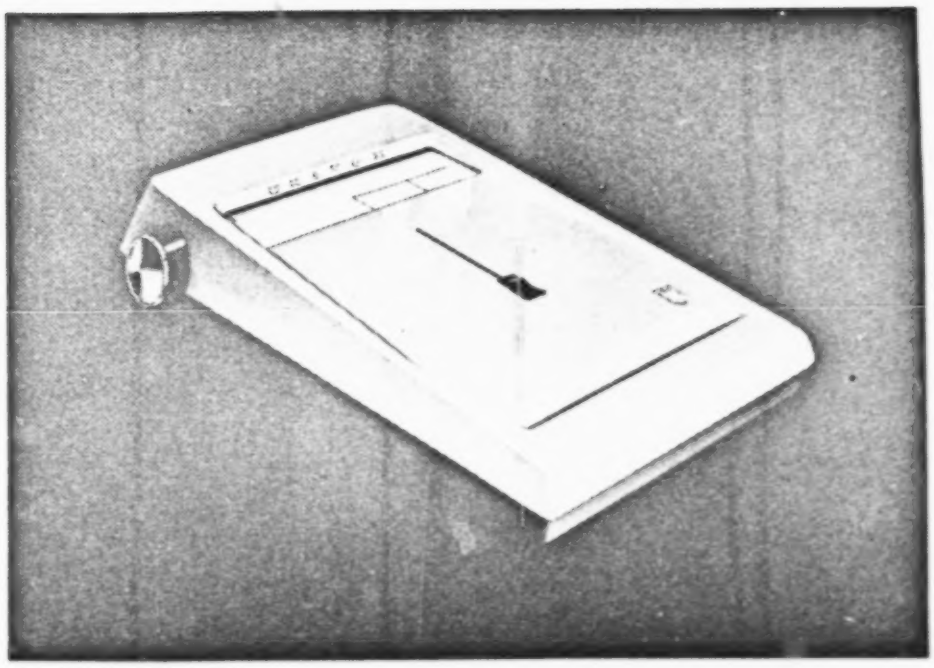
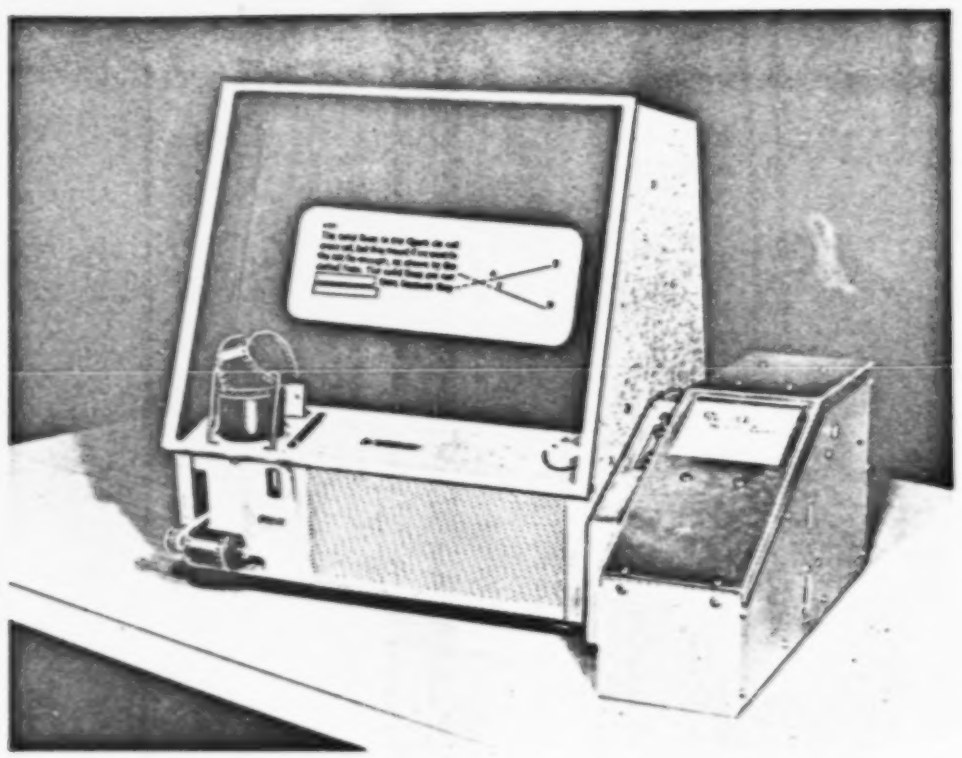


Fig 406 UNIVERSAL

Neg. No ~~6-7~~ 1192

Ch. _____ Page _____



" Du Kane

Fig 407

Reg. No. 1193

Ch. _____ Page _____

"GRAFLEX

Fig 408

Neg. No 1194

Ch. _____ Page _____

MAST

Fig. 409

Neg. No. 85

Ch. ____ Page ____

"RECORDAK

Fig 410

Neg. No 449

Ch. _____ Page _____

"

RECORDAK

Fig 411

Neg. No. ~~687~~ 1195

Ch. _____ Page _____

VIEWLEX

Fig 411a

1196

Neg. No. 69

Ch. _____ Page _____

" ASTRA

FIS 412

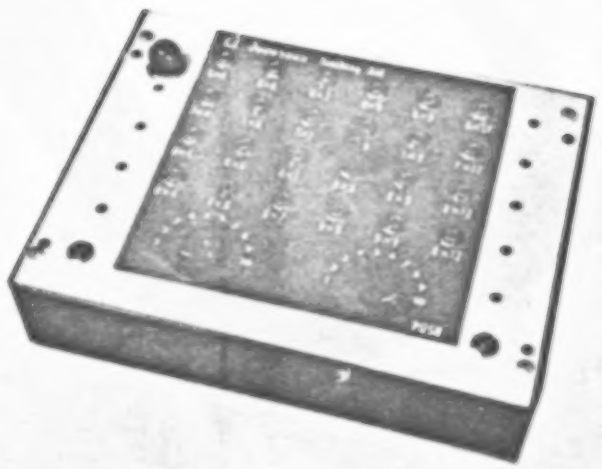
Neg No 118

COMPARATOR

Fig 413

Neg. No 536

Ch. _____ Page _____



DEVEREAUX

Fig 414

Neg. No 541

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Misc 50

"

Fls 415 Devereaux

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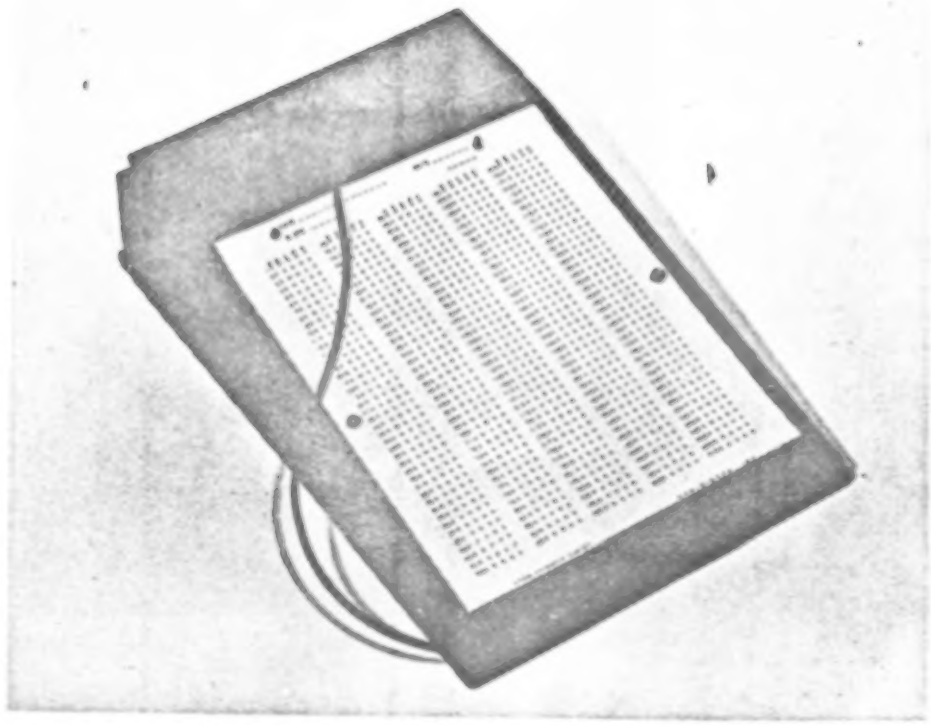
Ch._____ Page_____

Fig 446 Educational Specialties Co

Neg. No. 1266



" HRB SINGER

Fig 417

Neg. No 1198

Ch _____ Page _____

" ~~JANTZEN~~ JANSEN

Fig 418

Neg. No 83

" JANSEN

Fig 418a

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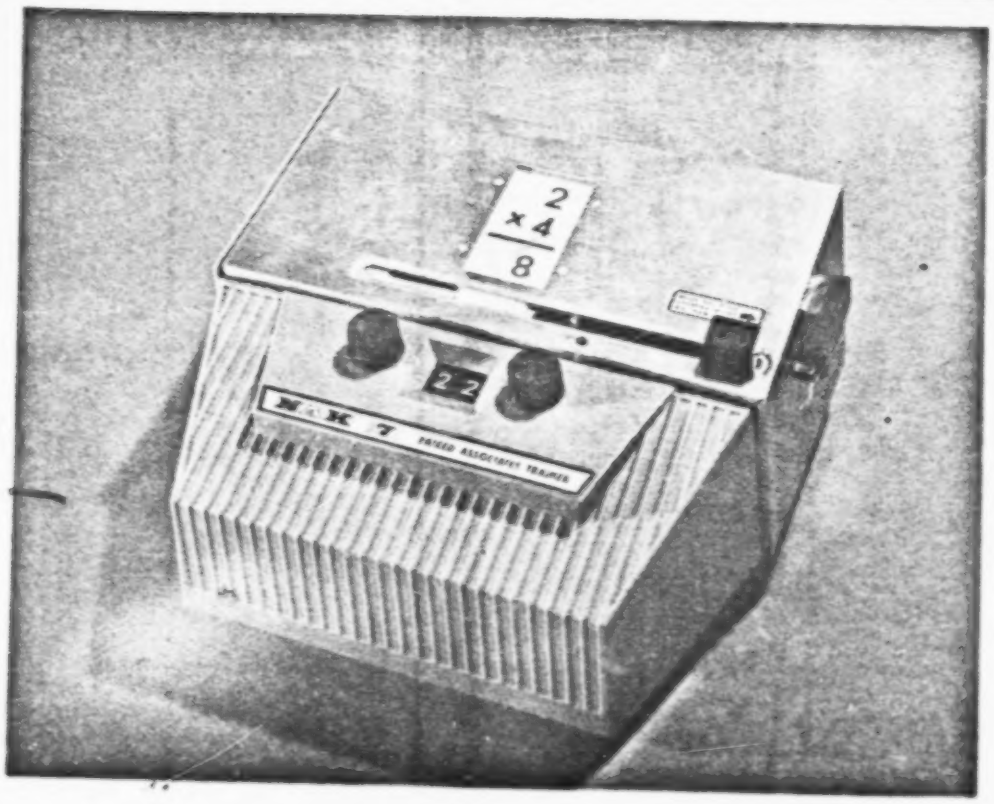
Ch._____ Page _____

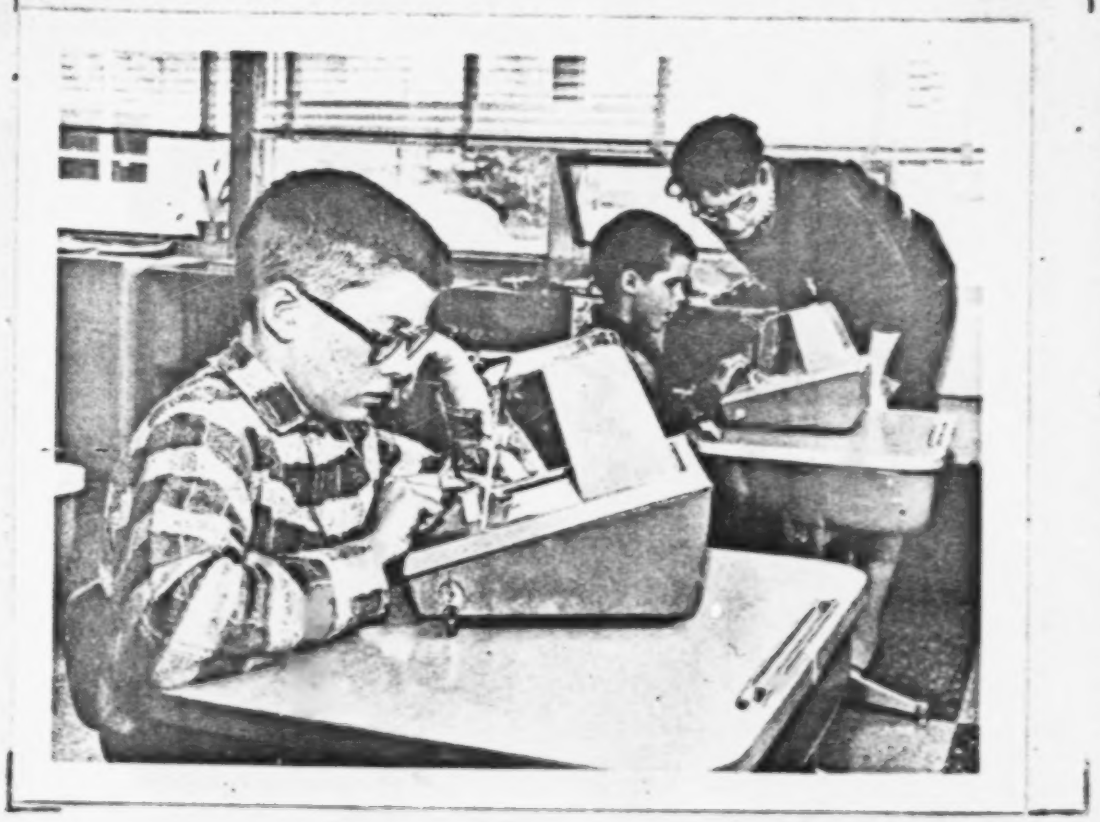


NAK.

Fig 418B

Neg. No. 1199

Ch. _____ Page _____

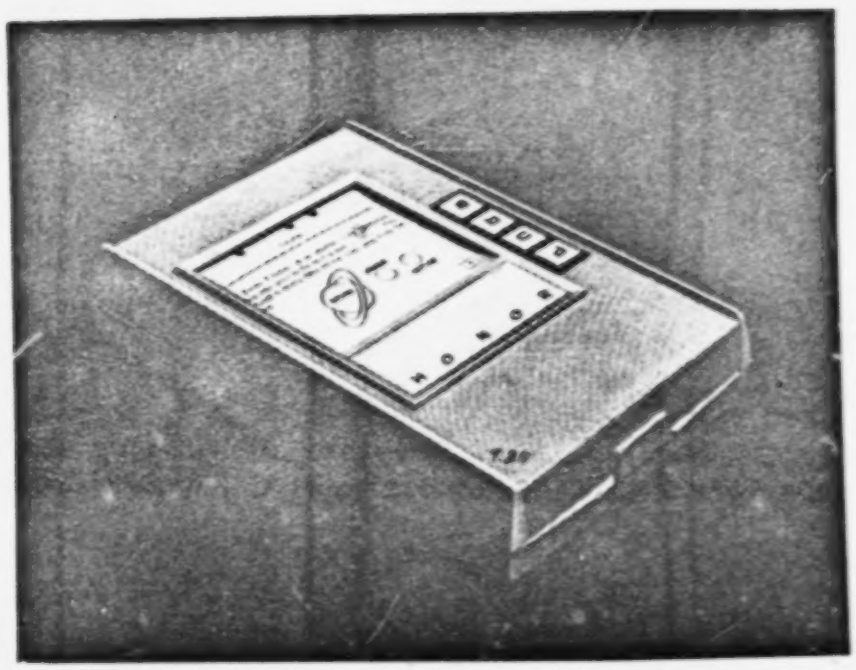


GENERAL ATRONICS

Fig 419

Neg. No. 1200

Ch. _____ Page _____

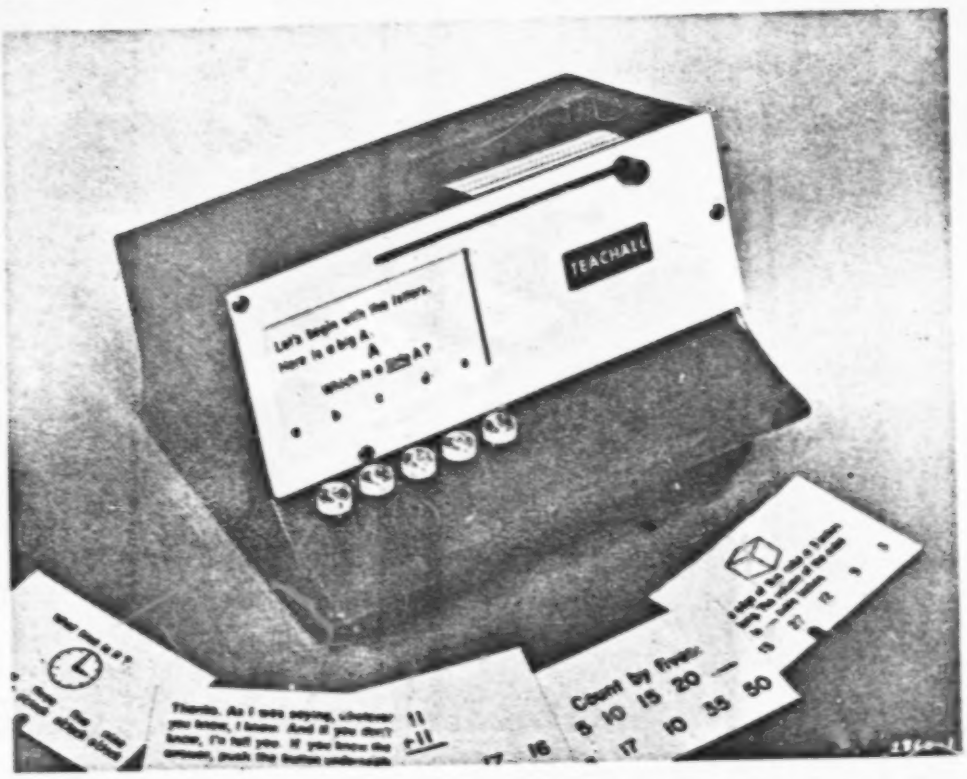


HONOR

Fig 420

Neg. No. 82

Ch. _____ Page _____



PUBLISHERS Co

Fig 421

1201

Neg. No. ~~600~~

Ch. ____ Page ____

RHEEM

Fig 422

Neg. No. 1202

Ch. _____ Page _____

"U.S. INDUSTRIES

Fig 423

Neg. No. 94

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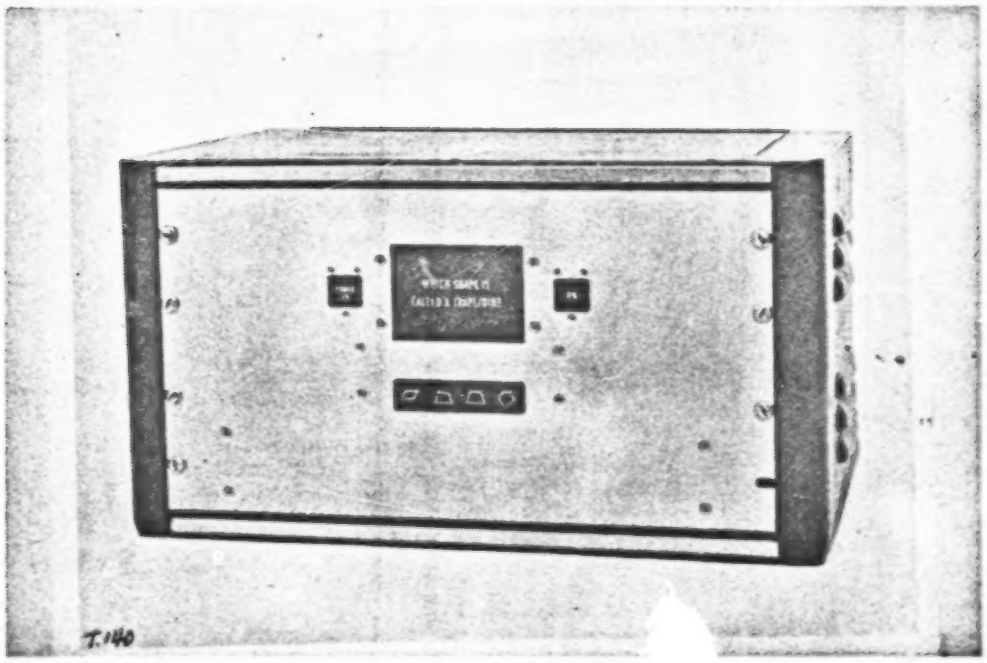
" EDUCATION ENGINEERING

FIS 424

Neg. No. 1203

Ch. _____ Page _____



T-140

Industrial
~~INTERNATIONAL~~ ELECTRONIC ENGINEERS

Fig 425

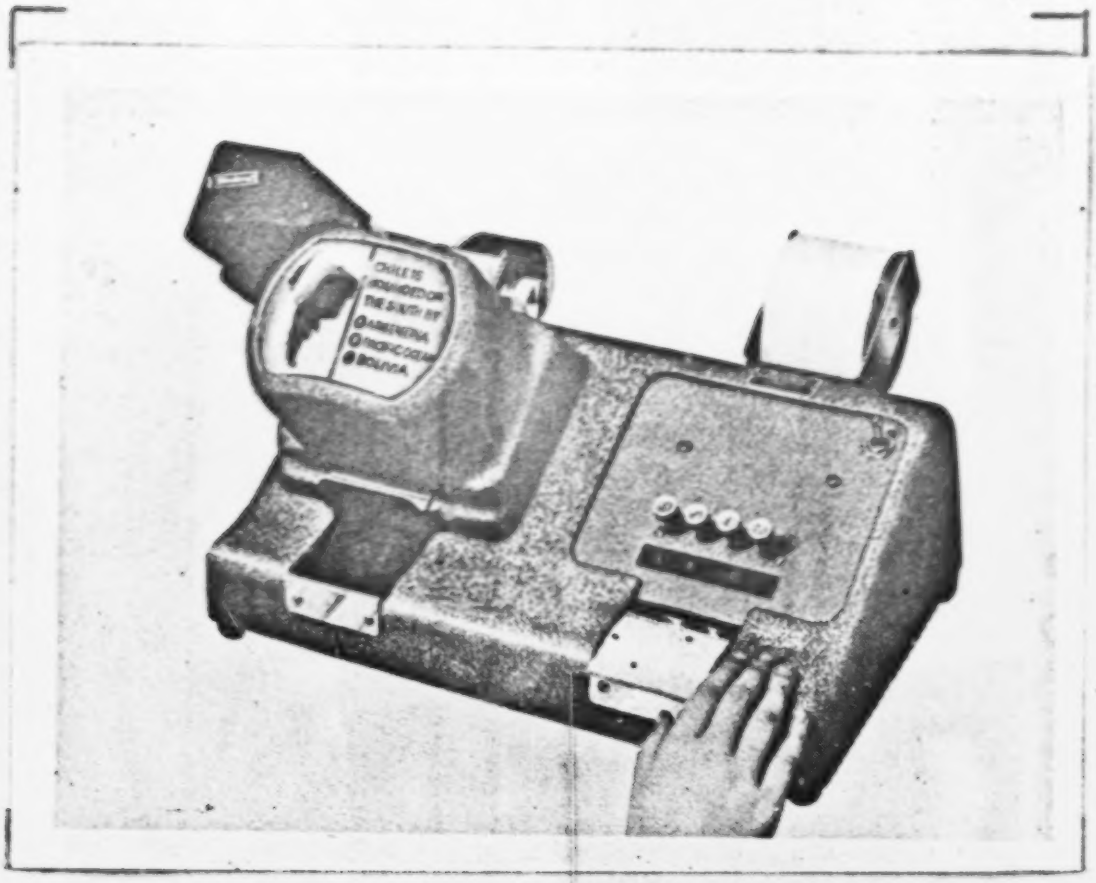
Neg. No. 109

~~PRINTING PAGE MISSING~~

.. MULTIMATICS

Fig 426

Neg. No 467



STANDARD

Pic 427

Neg. No. 1204

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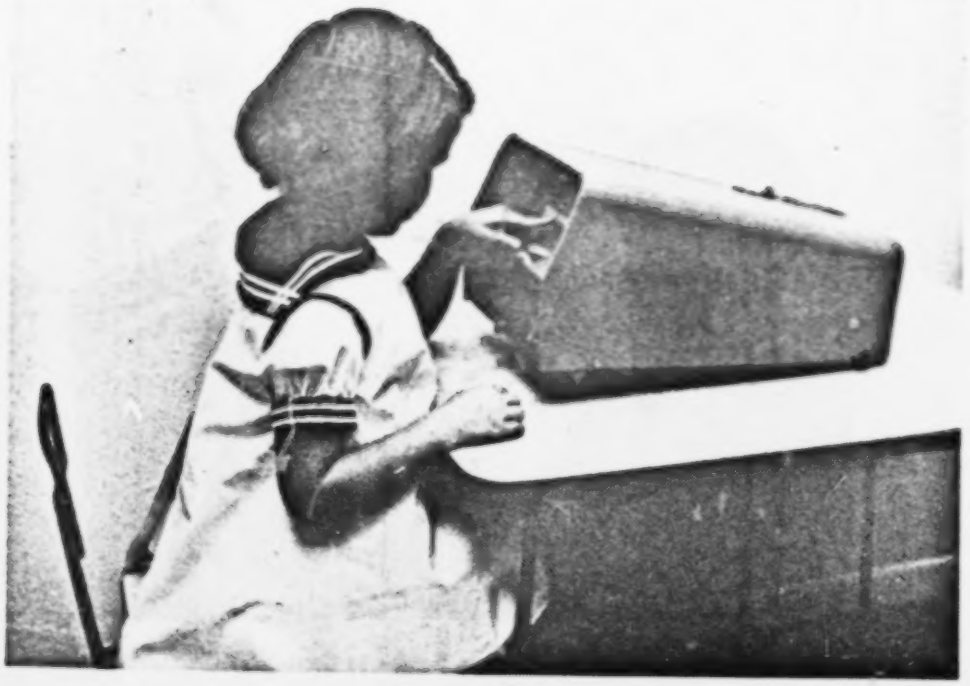


"
TEACHING MACHINES INC.

Fig 428

Neg. No. 1205

Ch. _____ Page _____

"TEACHING MACHINES INC. - WYCHOFF FILM
TUTOR

Fig 429

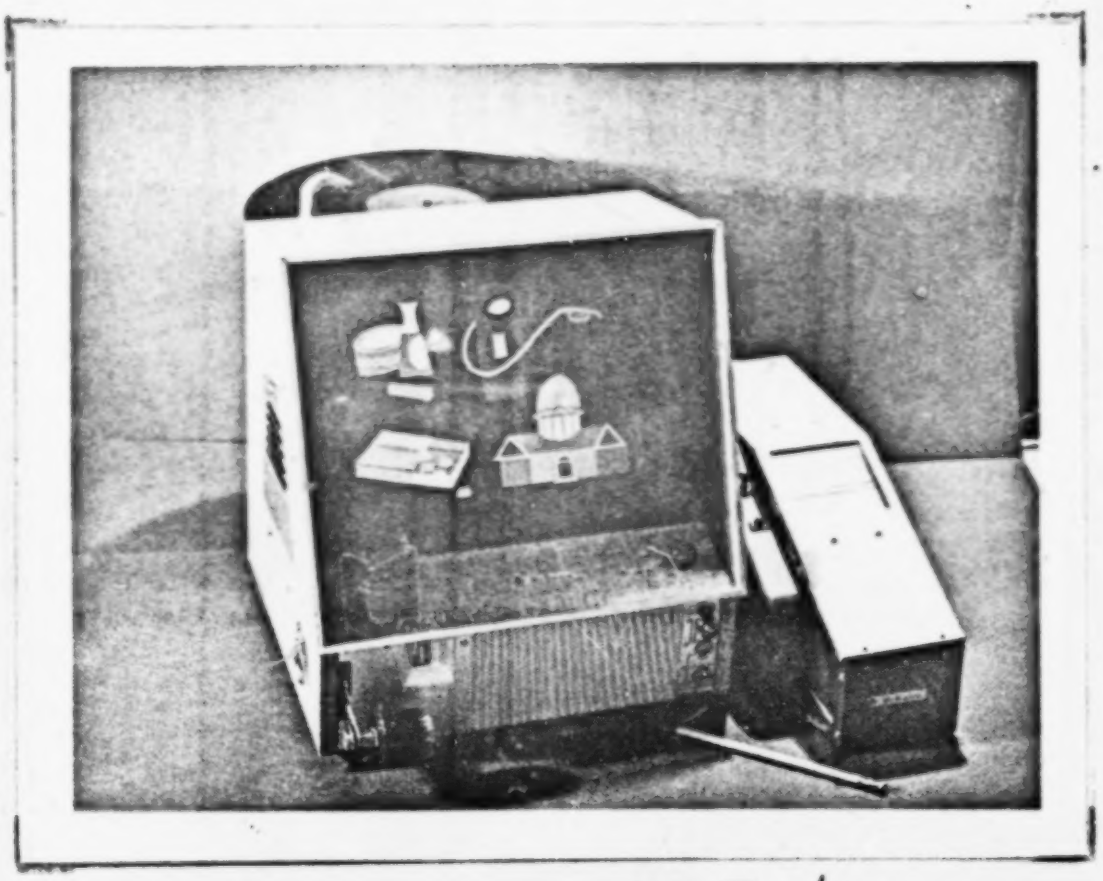
Neg. No. 1206

XVTA

Fig 430

Neg. No 1207

Ch._____ Page _____



Du Kane

Fig 431

Neg. No. 1208

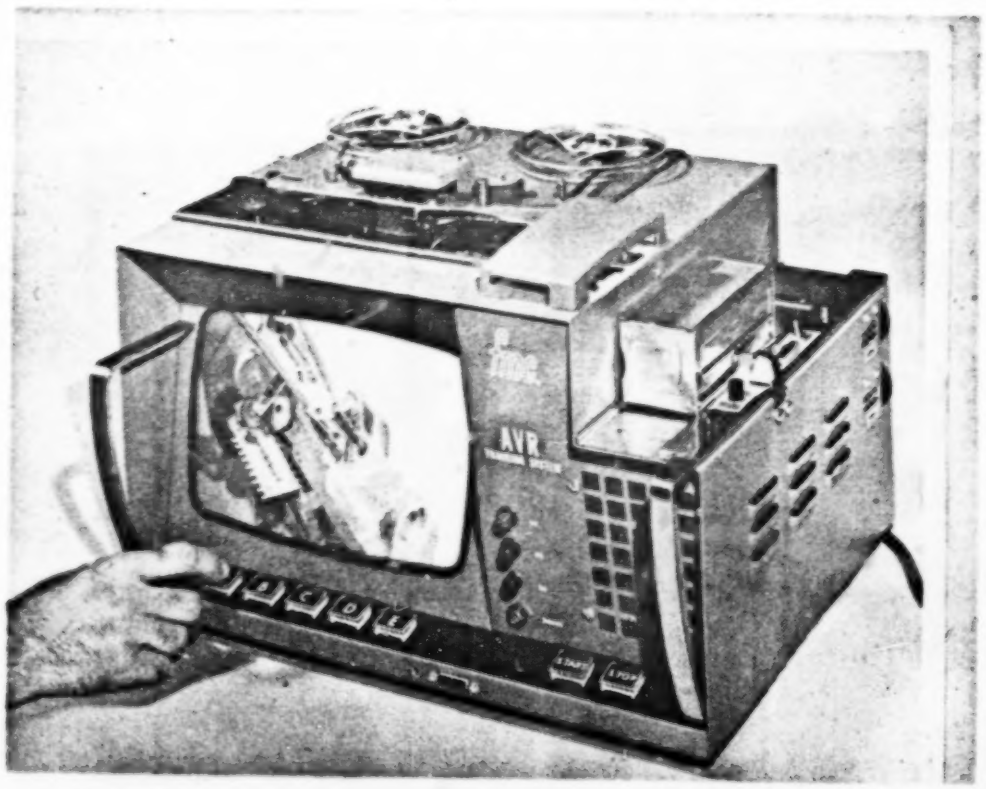
Ch. _____ Page _____

EDUCATIONAL AIDS

Fig 432

Negs. No. 1209 710

Ch. _____ Page _____



FMC the Corp.

Fig 432a

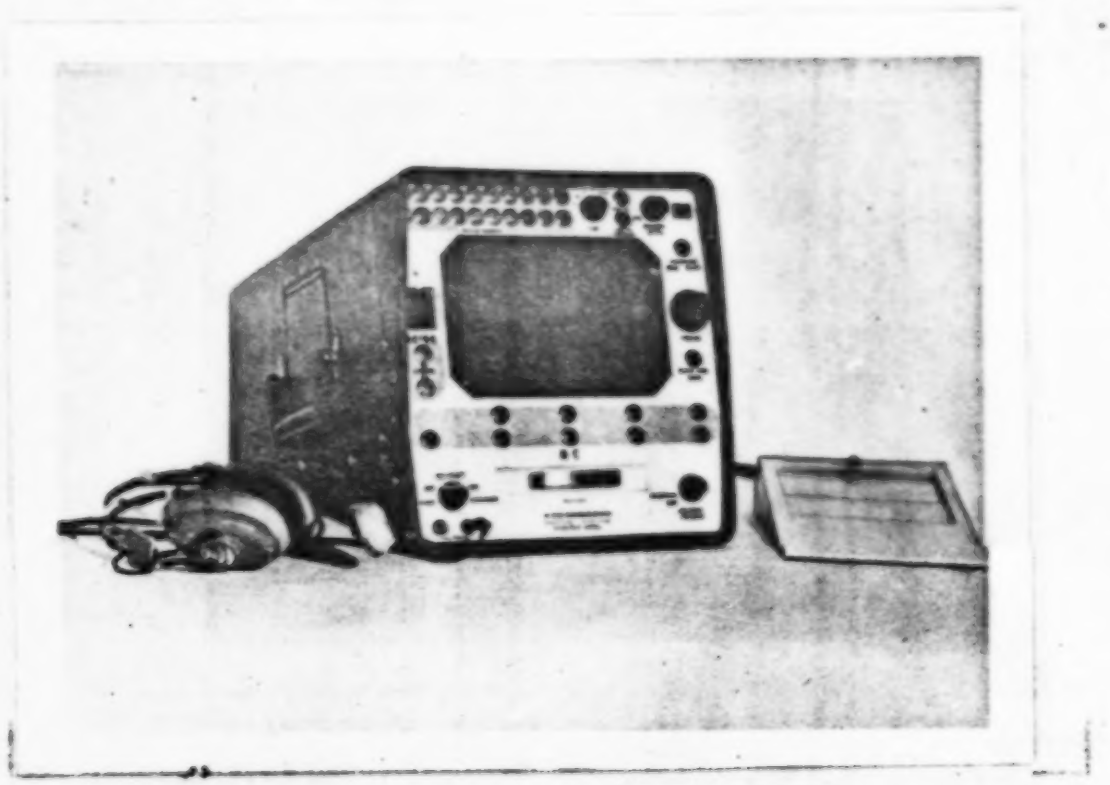
Neg. No. 1210

Ch..... Page .....

GILFILLAN

FIG 433

Neg. No 107



HUGHES

Fig 434

Neg No. 1211

INSTRUCTIVE DEVICES

FIG 435

Neg. No 494

Ch._____ Page _____

LECTRON

Pic 4136

Neg No. 1212

Ch._____ Page _____

LECTRON

Fig 437

Neg. No. 112

Ch._____ Page _____

VISUAL PROGRAMING

Fig 438

Neg. No. 110

Ch.____ Page ____

VISUTRONICS.

Fig 439

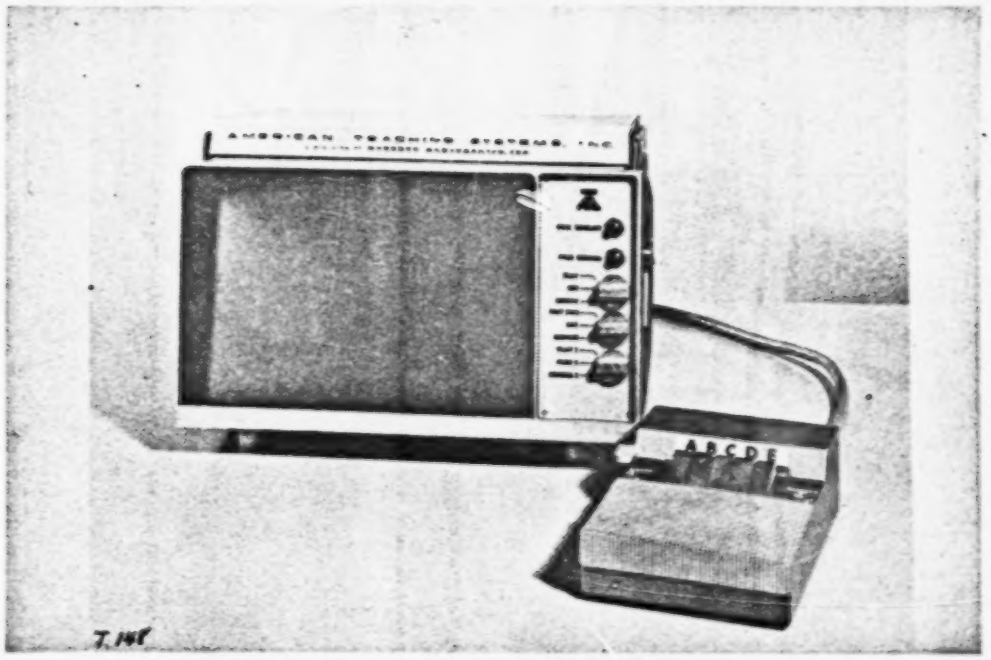
Neg. No. 79 (79)

Ch _____ Page _____

WILLIAMS

Fig 440

Neg. No. 106



" AMERICAN TEACHING

Fig 441

Neg. No. 72

T.143

CINESCOPES

Fig 442

Ch. ____ Page ____

MINNEAPOLIS HONEYWELL

Fig 443

1213

Neg. No ~~6[illegible]~~

Ch_____ Page _____

~~THOMPSON RAMO WOOLDRIDGE~~ Chapman MACHINE —

formerly ~~Thompson Ramo~~ Wooldridge "Mentor"

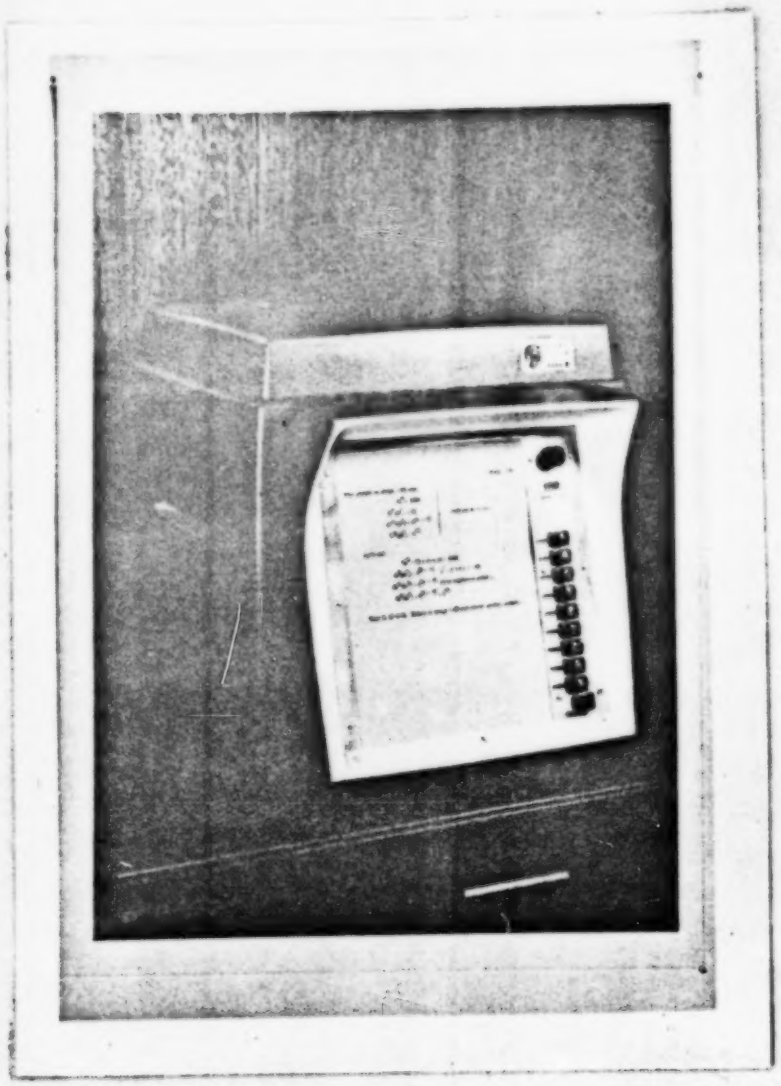
Fig 444

Neg. No ~~690~~ 1214

.. U.S. INDUSTRIES

Fig 445

Neg. No. 1215

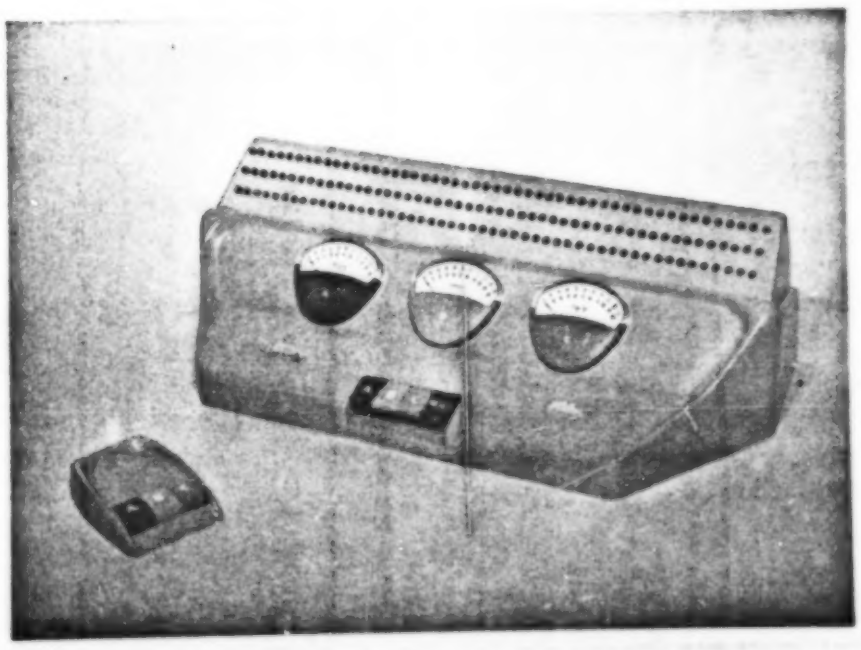


U.S. INDUSTRIES

Fig 446

Neg. No. 477

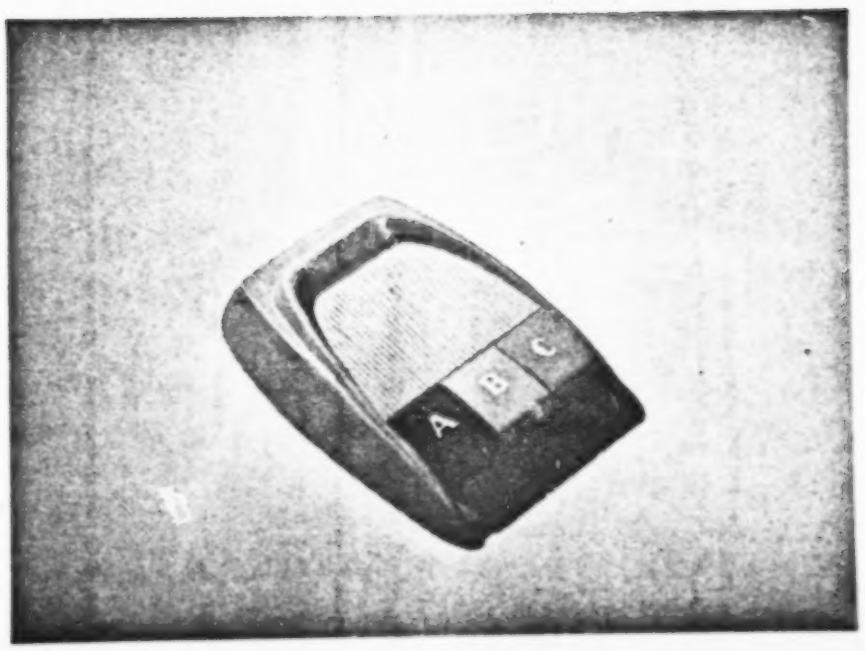
Ch. _____ Page _____



AIRCRAFT ARMAMENTS

FIS 447

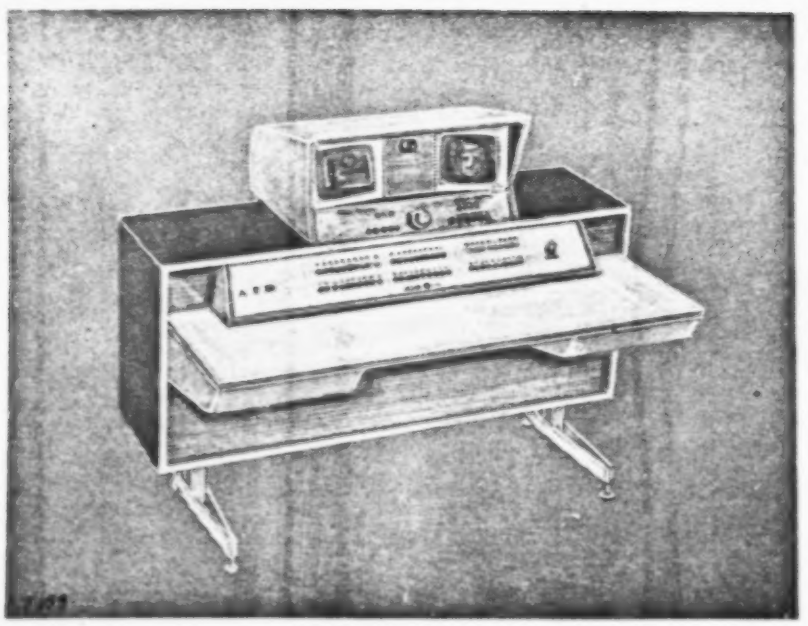
Neg. No. 25



"AIRCRAFT ARMAMENTS

FIG 447a

Ch_____ Page _____

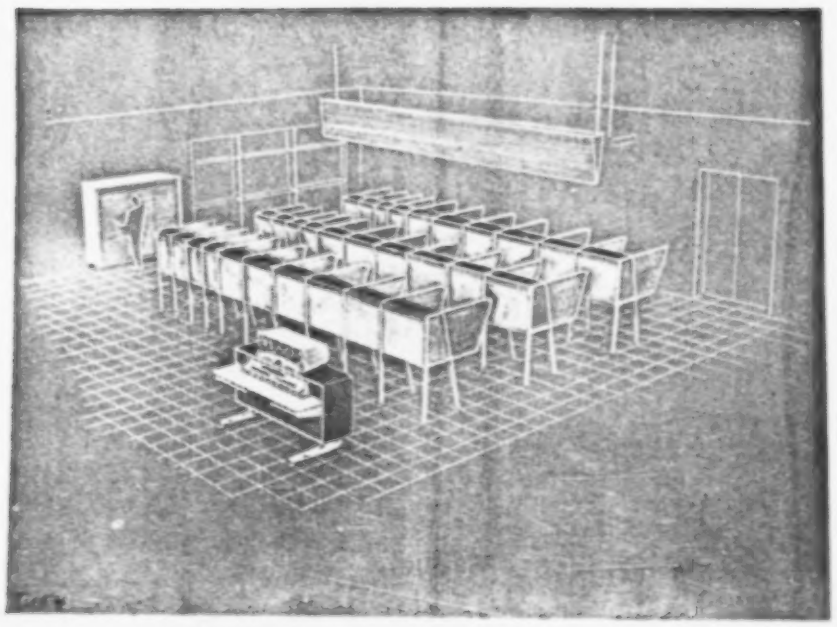


"DIAMOND ELECTRONICS.

Fig 448
pt. 1

Neg No. 99

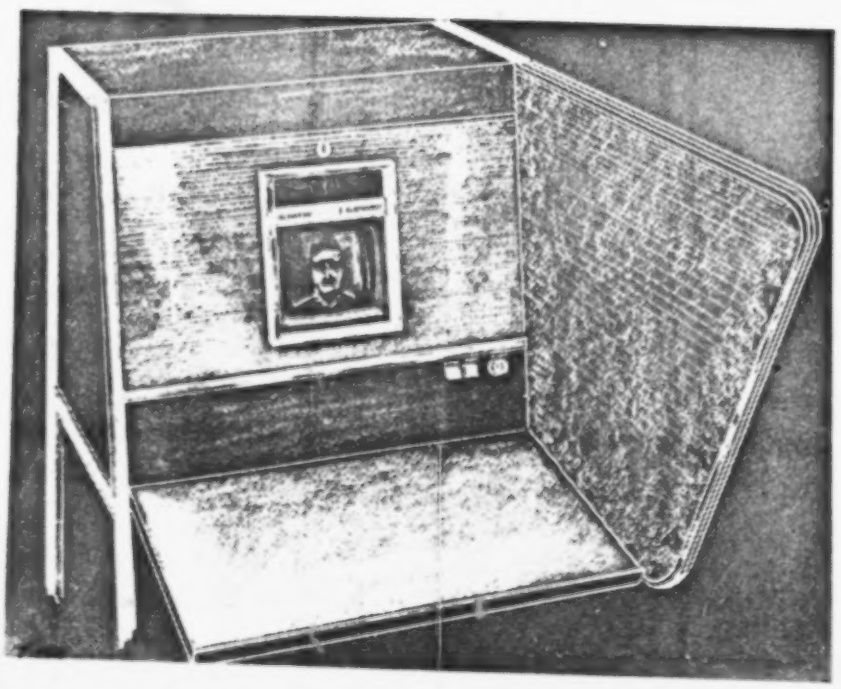
Ch_____ Page _____



DIAMOND ELECTRONICS

FAB 448a

Mgr. No 70



DIAMOND ELECTRONICS

Fig 48b

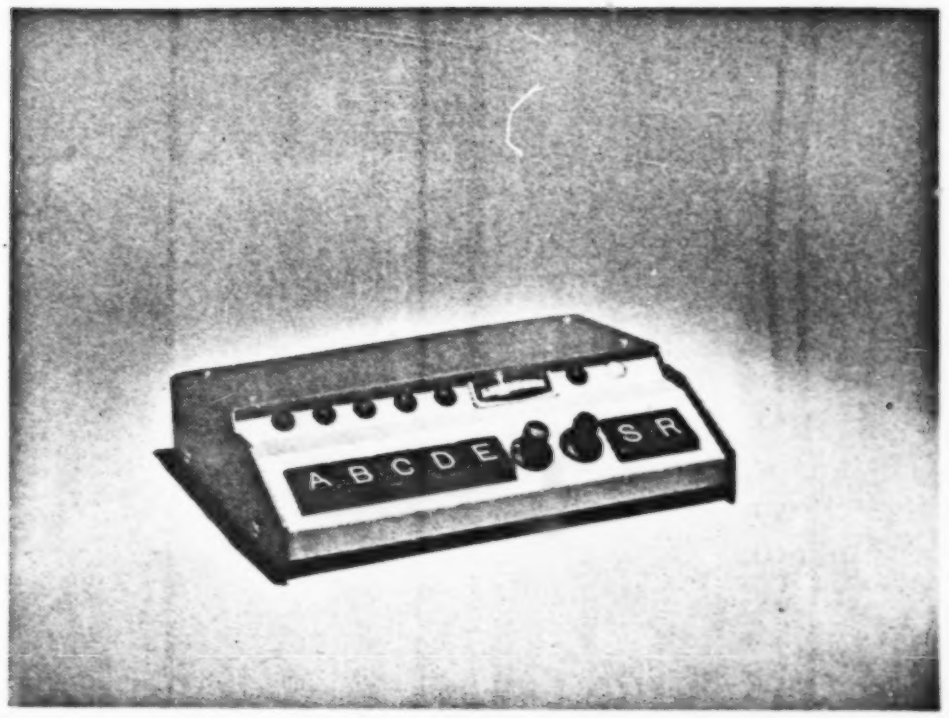
Reg. No. 71

Fig 449

Edex

Neg. No. 13

Ch.____ Page ____

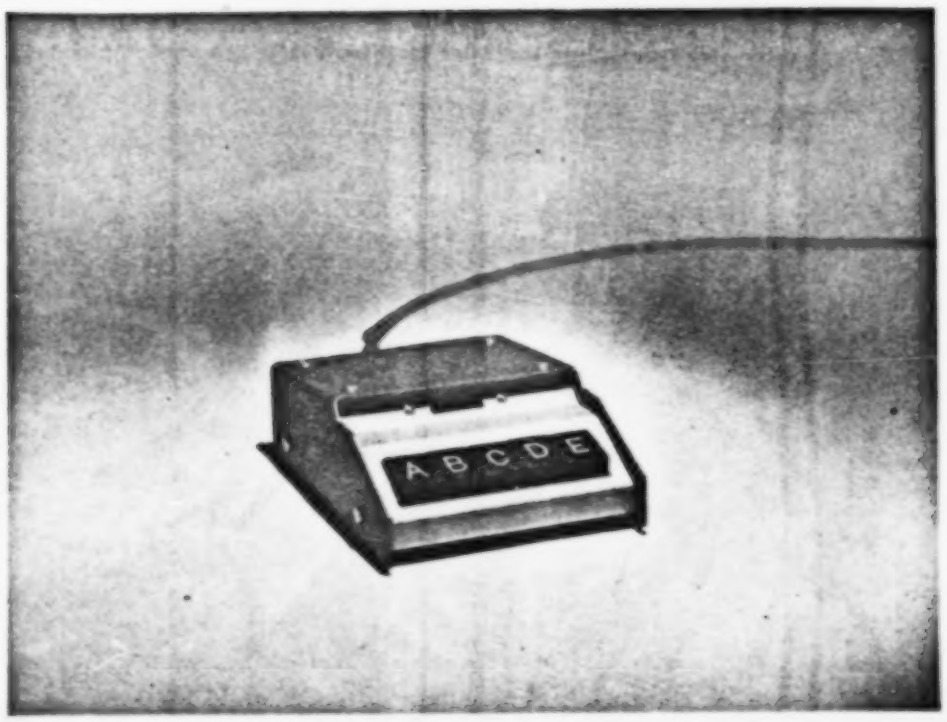


Electronic
~~Educ~~. Teaching Labs

Fig 450

Neg. No. 1216 712

Ch_____ Page _____

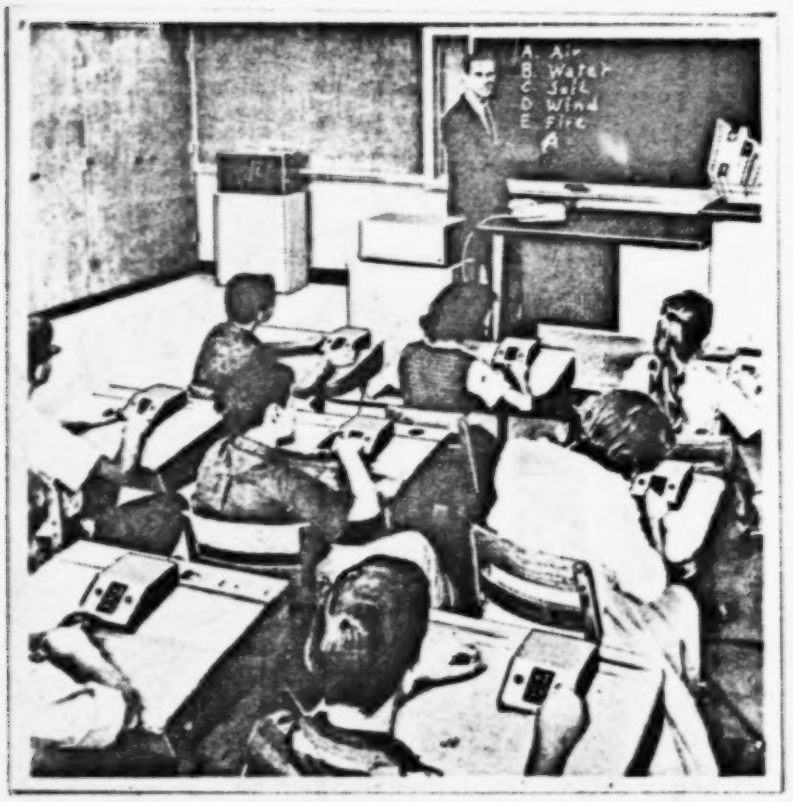


Electronic
~~EDUC~~. TEACHING LABS

Fig 450a

Neg. No. 1217 ~~7-62~~

Ch._____ Page_____



"

Fig 450 b Electronic Teaching Labs
(new model)

Neg. No. _____

Ch. _____ Page _____

Mc GRAW EDISON

Fig 450 x

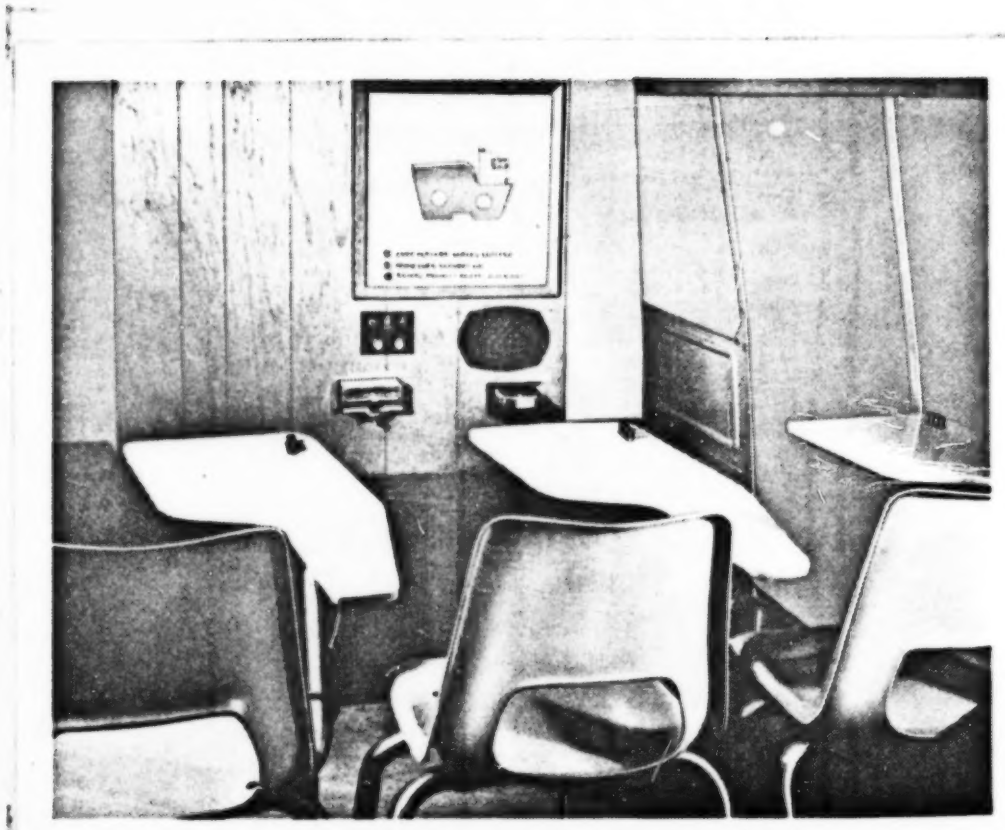
Neg. No. 1221

KUNINS

Fig 407

1218

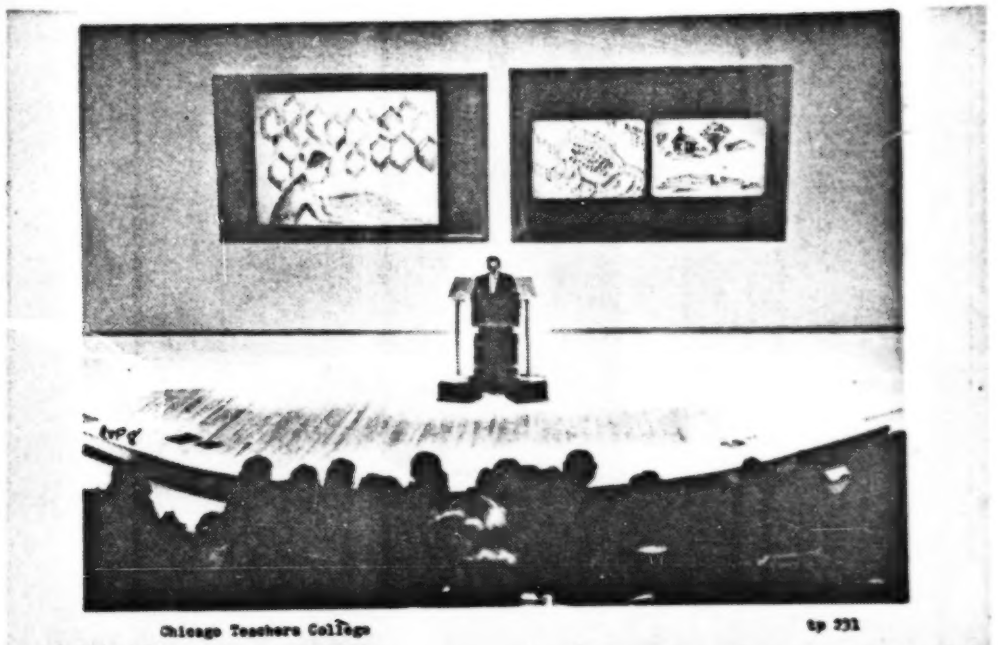
Neg No. ~~772~~



LECTRON

Fig 452

Neg. No. 1219



TELEPROMPTER

Fig 453

Neg. No 47

" TELEPROMPTER

4J3a
pt 2

RHEEM-PASK PSYCHOMOTOR TRAINER

Fig 454

Neg. No. 87

RHEEM ELECTRONICS — TYPEWRITER TRAINER

Fig 455

Neg. No. 1220

Ch._____ Page_____

Fig 455a — Responsive Environments

Neg. No. 1268

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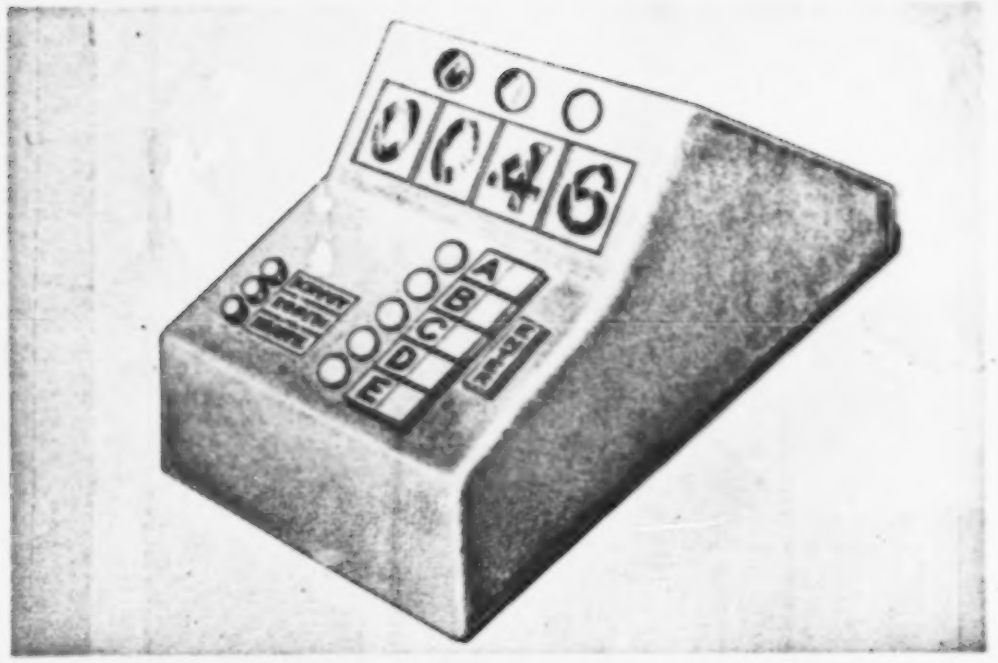
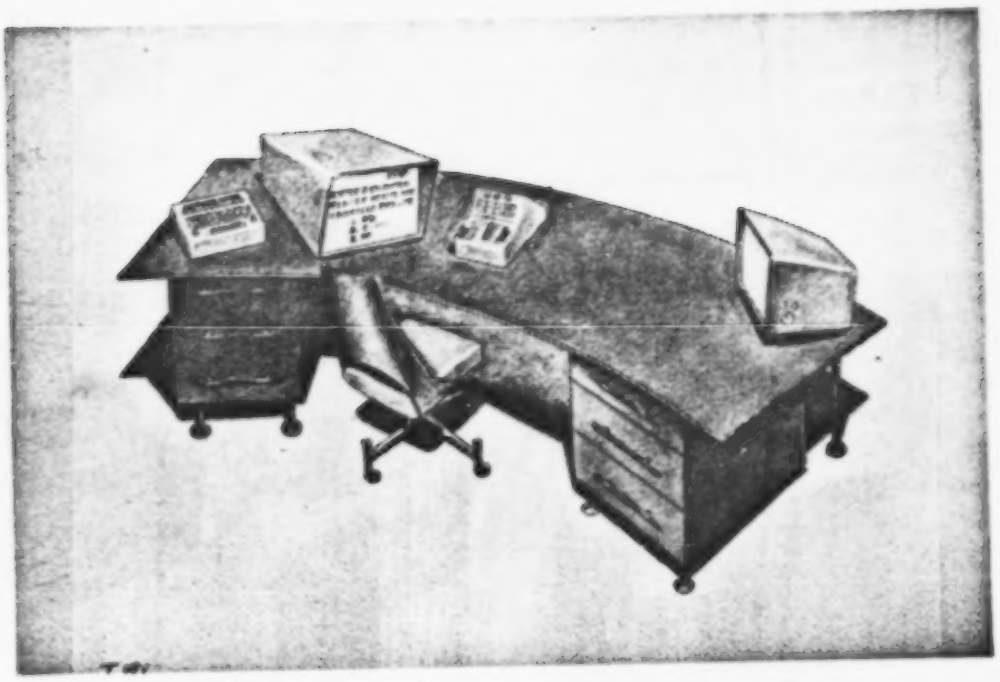


SDC — EXPERIMENTAL RESPONSE UNIT

Fig 456 b

Neg. No 92

Ch _____ Page _____



→ AUTOMATED TEACHERS DESK (SDC)

Fig 457

Neg. No. 91

PRECEDING PAGE MISSING

Ch. ____ Page ____

IBM RAMAC COMPUTER

Fig 459

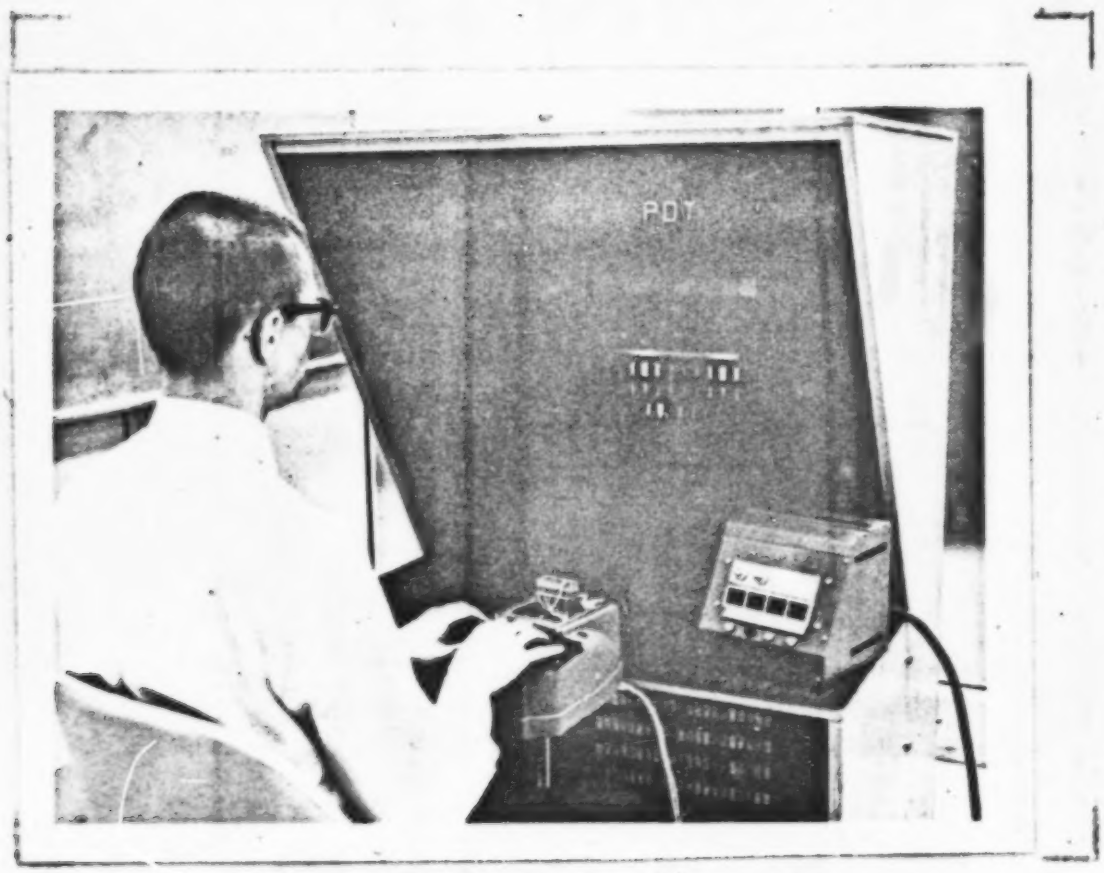
1222

Neg. No. [redacted]

1307 – MODIFIED ~~IBM~~ TYPEWRITER

Fig 460 "

Neg. No. ~~204~~ 12220

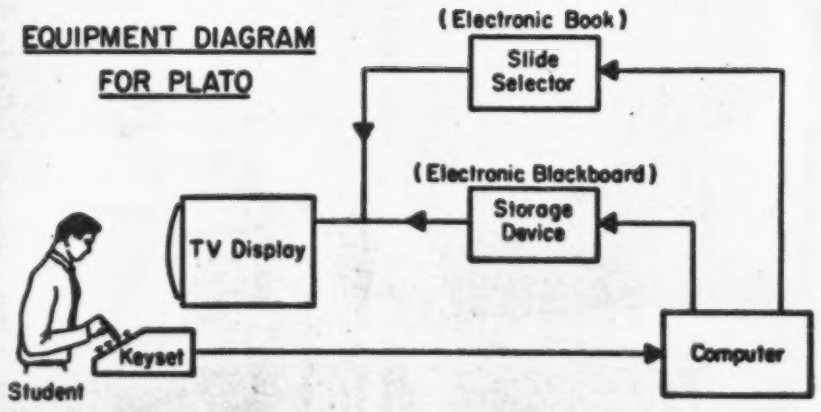


IBM – SPECIAL ELECTROLUMINESCENT DISPLAY

Fig 461

Neg. No. 1223

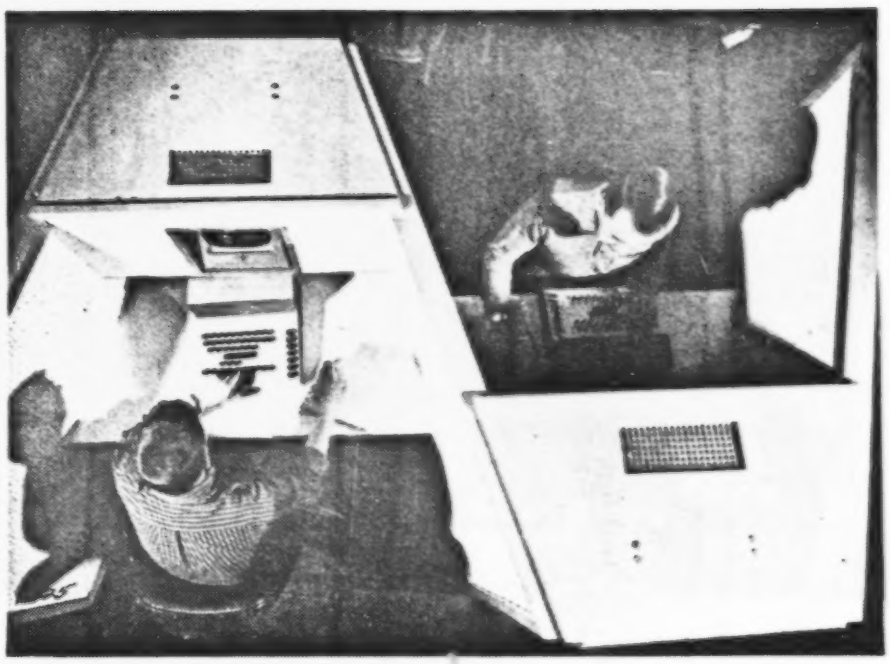
Ch._____ Page _____



PLATO SCHEMATIC

Fig 462

Neg No. 179

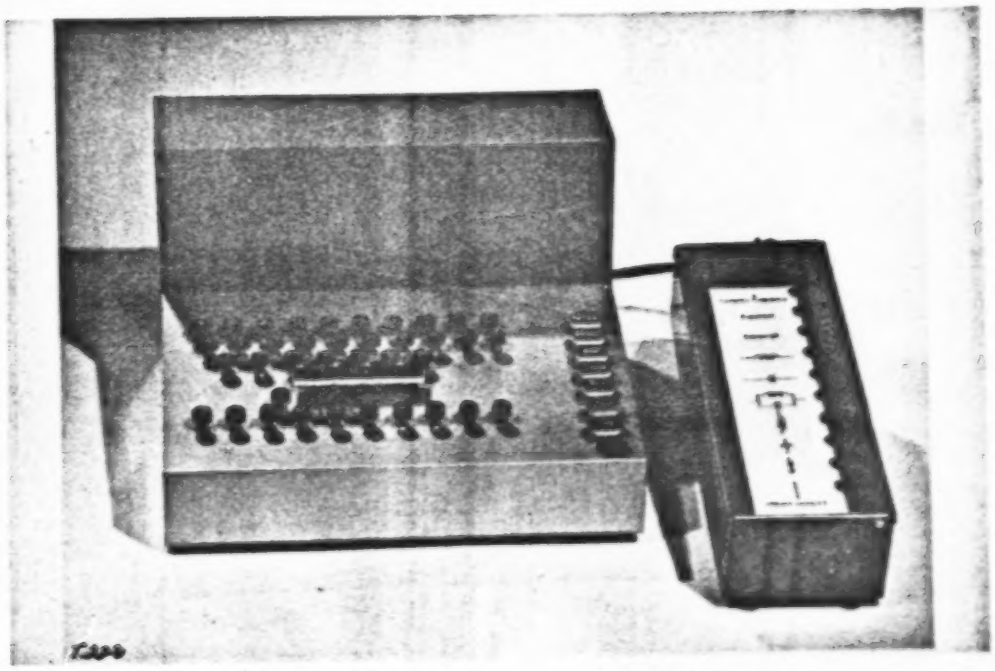


PLATO

Fig. 463

Neg. No. 65

Ch. _____ Page _____

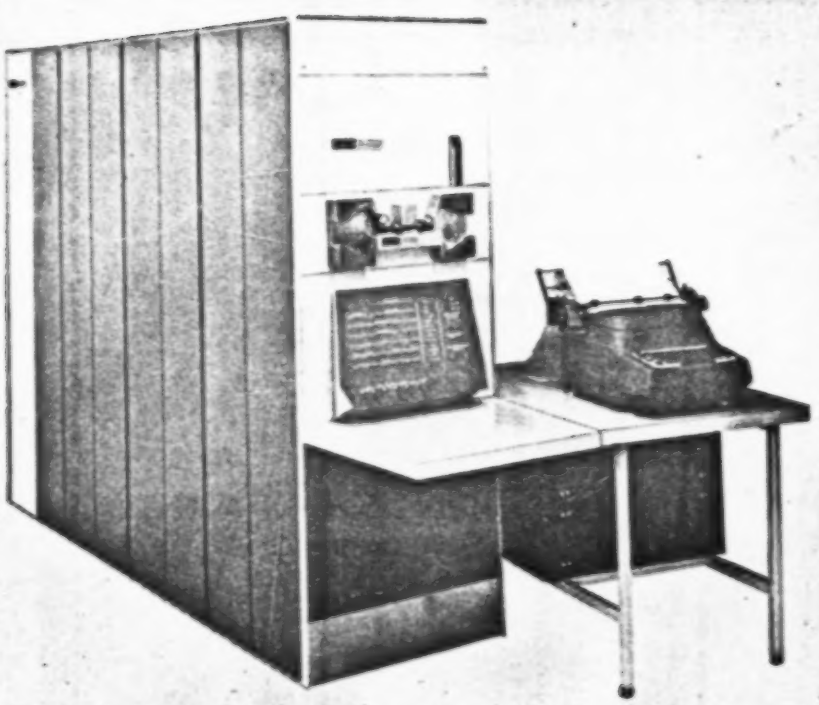


PLATO RESPONSE DEVICE

Fig 464

Neg. No. 69

Ch. _____ Page _____



T-53

DIGITAL

Fig 465

Neg. No. 1224

Ch. _____ Page _____

Chapman machine → T Hoffpson · Rand Wooldridge under construction at

Fig 465a

Neg. No. 89